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650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
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| 6.10.2.4.1.7a | Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 294 |
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| 6.10.2.4.1.15 | Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 308 |
| 6.10.2.4.1.16 | Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 309 |
| 6.10.2.4.1.17 | Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 311 |
| 6.10.2.4.1.18 | Void | 312 |
| 6.10.2.4.1.19 | Void | 312 |
| 6.10.2.4.1.20 | Void | 312 |
| 6.10.2.4.1.21 | Void | 312 |
| 6.10.2.4.1.22 | Void | 312 |
| 6.10.2.4.1.23 | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 312 |
| 6.10.2.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 314 |

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| 6.10.2.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 315 |
| 6.10.2.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 317 |
| 6.10.2.4.1.23d | Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 318 |
| 6.10.2.4.1.24 | Void | 320 |
| 6.10.2.4.1.25 | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 320 |
| 6.10.2.4.1.26 | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 321 |
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| 6.10.2.4.1.33 | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 327 |
| 6.10.2.4.1.34 | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 327 |
| 6.10.2.4.1.35 | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 328 |
| 6.10.2.4.1.36 | Void | 329 |
| 6.10.2.4.1.37 | Void | 329 |
| 6.10.2.4.1.38 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 329 |
| 6.10.2.4.1.38a | Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 330 |
| 6.10.2.4.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 332 |
| 6.10.2.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 334 |
| 6.10.2.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 335 |
| 6.10.2.4.1.38e | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 337 |
| 6.10.2.4.1.38f | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 338 |
| 6.10.2.4.1.38g | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 339 |
| 6.10.2.4.1.38h | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 340 |
| 6.10.2.4.1.38i | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 342 |
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| 6.10.2.4.1.38k | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing)..... | 345 |
| 6.10.2.4.1.39 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 347 |
| 6.10.2.4.1.40 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 348 |

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| 6.10.2.4.1.41 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 348 |
| 6.10.2.4.1.42 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 349 |
| 6.10.2.4.1.43 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 350 |
| 6.10.2.4.1.44 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 351 |
| 6.10.2.4.1.45 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 354 |
| 6.10.2.4.1.46 | Void | 355 |
| 6.10.2.4.1.47 | Void | 355 |
| 6.10.2.4.1.48 | Void | 355 |
| 6.10.2.4.1.49 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 355 |
| 6.10.2.4.1.49a | Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 356 |
| 6.10.2.4.1.50 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 357 |
| 6.10.2.4.1.51 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 358 |
| 6.10.2.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 359 |
| 6.10.2.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 360 |
| 6.10.2.4.1.52 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 361 |
| 6.10.2.4.1.53 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 362 |
| 6.10.2.4.1.54 | Void | 362 |
| 6.10.2.4.1.55 | Void | 362 |
| 6.10.2.4.1.56 | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 362 |
| 6.10.2.4.1.57 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 364 |
| 6.10.2.4.1.58 | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 366 |
| 6.10.2.4.1.58a | Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 367 |
| 6.10.2.4.1.59 | Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 368 |
| 6.10.2.4.1.60 | Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 371 |
| 6.10.2.4.1.61 | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 372 |
| 6.10.2.4.1.62 | Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH | 375 |
| 6.10.2.4.1.63 | Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 377 |
| 6.10.2.4.2 | Combinations on PDSCH and DPCH..... | 378 |
| 6.10.2.4.2.1 | Void | 378 |
| 6.10.2.4.2.2 | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 378 |
| 6.10.2.4.2.3 | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 379 |
| 6.10.2.4.2.4 | Void | 381 |
| 6.10.2.4.2.5 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 381 |
| 6.10.2.4.2.6 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 381 |

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| 6.10.2.4.3 | Combinations on SCCPCH | 382 |
| 6.10.2.4.3.1 | Stand-alone signalling RB for PCCH | 382 |
| 6.10.2.4.3.2 | Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH | 383 |
| 6.10.2.4.3.2a | Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH | 384 |
| 6.10.2.4.3.3 | Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH | 385 |
| 6.10.2.4.3.4 | RB for CTCH + SRB for CCCH + SRB for BCCH | 386 |
| 6.10.2.4.3.5 | 64.8kbps RB for MTCH with 80 ms TTI..... | 387 |
| 6.10.2.4.3.6 | 129.6 kbps RB for MTCH with 80 ms TTI..... | 388 |
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| 6.10.2.4.3.9 | Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH + SRB for MCCH..... | 390 |
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| 6.10.2.4.5.1a | Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 398 |
| 6.10.2.4.5.2 | Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 399 |
| 6.10.2.4.5.3 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 400 |
| 6.10.2.4.5.3a | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 401 |
| 6.10.2.4.5.4 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 402 |
| 6.10.2.4.5.4a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 403 |
| 6.10.2.4.5.5 | Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 403 |
| 6.10.2.4.5.5.1 | Uplink | 403 |
| 6.10.2.4.5.5a | Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 405 |
| 6.10.2.4.5.6 | Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 406 |
| 6.10.2.4.5.7 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 408 |
| 6.10.2.4.5.8 | Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH..... | 409 |
| 6.10.2.4.5.9 | Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 412 |
| 6.10.2.4.5.10 | Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 415 |

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| 6.10.2.4.6.1 | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH | 416 |
| 6.10.2.4.6.1a | Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH | 418 |
| 6.10.2.4.6.2 | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH..... | 419 |
| 6.10.2.4.6.3 | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH..... | 420 |
| 6.10.2.4.6.4 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 422 |
| 6.10.2.4.6.5 | Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH | 422 |
| 6.10.2.4.6.6 | Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)..... | 423 |
| 6.10.2.4.6.7 | Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category and TTI] SRBs for DCCH on E-DCH and HS-DSCH (REL-6) | 425 |
| 6.10.2.4.6.8 | Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH | 428 |
| 6.10.2.4.6.9 | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) kbps DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH..... | 429 |
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| 6.10.3.4.1.2 | Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH | 446 |
| 6.10.3.4.1.3 | Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH | 448 |
| 6.10.3.4.1.4 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 449 |
| 6.10.3.4.1.4a | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 451 |
| 6.10.3.4.1.5 | Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 453 |

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| 6.10.3.4.1.5a | Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 455 |
| 6.10.3.4.1.6 | Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 456 |
| 6.10.3.4.1.7 | Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 458 |
| 6.10.3.4.1.7a | Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 460 |
| 6.10.3.4.1.8 | Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 462 |
| 6.10.3.4.1.9 | Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 463 |
| 6.10.3.4.1.10 | Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH..... | 465 |
| 6.10.3.4.1.11 | Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH..... | 467 |
| 6.10.3.4.1.12 | Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 468 |
| 6.10.3.4.1.13 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 470 |
| 6.10.3.4.1.14 | Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 471 |
| 6.10.3.4.1.15 | Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 473 |
| 6.10.3.4.1.16 | Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 474 |
| 6.10.3.4.1.17 | Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 476 |
| 6.10.3.4.1.18 | Void | 477 |
| 6.10.3.4.1.19 | Void | 477 |
| 6.10.3.4.1.20 | Void | 477 |
| 6.10.3.4.1.21 | Void | 477 |
| 6.10.3.4.1.22 | Void | 477 |
| 6.10.3.4.1.23 | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 477 |
| 6.10.3.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 479 |
| 6.10.3.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 480 |
| 6.10.3.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 481 |
| 6.10.3.4.1.23d | Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 483 |
| 6.10.3.4.1.24 | Void | 484 |
| 6.10.3.4.1.25 | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 484 |
| 6.10.3.4.1.26 | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 485 |
| 6.10.3.4.1.27 | Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 486 |
| 6.10.3.4.1.28 | Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 487 |
| 6.10.3.4.1.29 | Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 488 |
| 6.10.3.4.1.30 | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 489 |
| 6.10.3.4.1.31 | Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 490 |
| 6.10.3.4.1.32 | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 491 |
| 6.10.3.4.1.33 | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 492 |

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| 6.10.3.4.1.34 | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 492 |
| 6.10.3.4.1.35 | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 493 |
| 6.10.3.4.1.36 | Void | 494 |
| 6.10.3.4.1.37 | Void | 494 |
| 6.10.3.4.1.38 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 494 |
| 6.10.3.4.1.38a | Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 496 |
| 6.10.3.4.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 497 |
| 6.10.3.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 498 |
| 6.10.3.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 500 |
| 6.10.3.4.1.38e | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 502 |
| 6.10.3.4.1.38f | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 503 |
| 6.10.3.4.1.38g | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 504 |
| 6.10.3.4.1.38h | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 506 |
| 6.10.3.4.1.38i | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 507 |
| 6.10.3.4.1.38j | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 509 |
| 6.10.3.4.1.39 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 510 |
| 6.10.3.4.1.40 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 511 |
| 6.10.3.4.1.41 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 513 |
| 6.10.3.4.1.42 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 514 |
| 6.10.3.4.1.43 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 516 |
| 6.10.3.4.1.44 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 517 |
| 6.10.3.4.1.45 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 520 |
| 6.10.3.4.1.46 | Void | 521 |
| 6.10.3.4.1.47 | Void | 521 |
| 6.10.3.4.1.48 | Void | 521 |
| 6.10.3.4.1.49 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 521 |
| 6.10.3.4.1.49a | Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 522 |
| 6.10.3.4.1.50 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 523 |
| 6.10.3.4.1.51 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 524 |
| 6.10.3.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 526 |
| 6.10.3.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 527 |
| 6.10.3.4.1.52 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 527 |

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| 6.10.3.4.1.53 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 528 |
| 6.10.3.4.1.54 | Void | 529 |
| 6.10.3.4.1.55 | Void | 529 |
| 6.10.3.4.1.56 | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 529 |
| 6.10.3.4.1.57 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 530 |
| 6.10.3.4.1.58 | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 532 |
| 6.10.3.4.1.59 | Reserved for future use | 533 |
| 6.10.3.4.1.60 | Reserved for future use | 533 |
| 6.10.3.4.1.61 | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 533 |
| 6.10.3.4.2 | Combinations on PDSCH, SCCPCH, PUSCH and PRACH..... | 535 |
| 6.10.3.4.2.1 | Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH..... | 535 |
| 6.10.3.4.2.2 | Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH | 541 |
| 6.10.3.4.2.3 | Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH | 543 |
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| 6.11.5.4.1.7a | Conversational / speech / UL:7.4 6.7 5.9 4.75 DL:7.4 6.7 5.9 4.75 / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 633 |
| 6.11.5.4.1.8 | Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 634 |
| 6.11.5.4.1.9 | Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 635 |
| 6.11.5.4.1.10 | Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH..... | 636 |
| 6.11.5.4.1.11 | Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH..... | 637 |
| 6.11.5.4.1.12 | Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 638 |
| 6.11.5.4.1.13 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 638 |
| 6.11.5.4.1.14 | Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 639 |
| 6.11.5.4.1.15 | Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 640 |
| 6.11.5.4.1.16 | Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 641 |
| 6.11.5.4.1.17 | Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 642 |
| 6.11.5.4.1.18 | Void | 643 |
| 6.11.5.4.1.19 | Void | 643 |
| 6.11.5.4.1.20 | Void | 643 |
| 6.11.5.4.1.21 | Void | 643 |
| 6.11.5.4.1.22 | Void | 643 |
| 6.11.5.4.1.23 | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 643 |
| 6.11.5.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 644 |
| 6.11.5.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 644 |
| 6.11.5.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 645 |
| 6.11.5.4.1.23d | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 646 |
| 6.11.5.4.1.24 | Void | 647 |
| 6.11.5.4.1.25 | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 647 |
| 6.11.5.4.1.26 | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 647 |
| 6.11.5.4.1.27 | Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 648 |
| 6.11.5.4.1.28 | Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 648 |
| 6.11.5.4.1.29 | Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 649 |
| 6.11.5.4.1.30 | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 649 |
| 6.11.5.4.1.31 | Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 650 |
| 6.11.5.4.1.32 | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 650 |
| 6.11.5.4.1.33 | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 651 |
| 6.11.5.4.1.34 | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 651 |
| 6.11.5.4.1.35 | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 651 |

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| 6.11.5.4.1.36 | Void | 652 |
| 6.11.5.4.1.37 | Void | 652 |
| 6.11.5.4.1.38 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 652 |
| 6.11.5.4.1.38a | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 653 |
| 6.11.2.5.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 654 |
| 6.11.5.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 655 |
| 6.11.5.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 656 |
| 6.11.5.4.1.38e | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 657 |
| 6.11.5.4.1.38f | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 658 |
| 6.11.5.4.1.38g | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 659 |
| 6.11.5.4.1.38h | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 660 |
| 6.11.5.4.1.38i | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 661 |
| 6.11.5.4.1.38j | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 662 |
| 6.11.5.4.1.39 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 663 |
| 6.11.5.4.1.40 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 663 |
| 6.11.5.4.1.41 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 664 |
| 6.11.5.4.1.42 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 665 |
| 6.11.5.4.1.43 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 666 |
| 6.11.5.4.1.44 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 666 |
| 6.11.5.4.1.45 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 668 |
| 6.11.5.4.1.46 | Void | 669 |
| 6.11.5.4.1.47 | Void | 669 |
| 6.11.5.4.1.48 | Void | 669 |
| 6.11.5.4.1.49 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 669 |
| 6.11.5.4.1.49a | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 670 |
| 6.11.5.4.1.50 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 671 |
| 6.11.5.4.1.51 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 672 |
| 6.11.5.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 673 |
| 6.11.5.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 673 |

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| 6.11.5.4.1.52 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 674 |
| 6.11.5.4.1.53 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 675 |
| 6.11.5.4.1.54 | Void | 675 |
| 6.11.5.4.1.55 | Void | 675 |
| 6.11.5.4.1.56 | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 675 |
| 6.11.5.4.1.57 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 676 |
| 6.11.5.4.1.58 | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 677 |
| 6.11.5.4.1.59 | Reserved for future use | 678 |
| 6.11.5.4.1.60 | Reserved for future use | 678 |
| 6.11.5.4.1.61 | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 678 |
| 6.11.5.4.1.62 | Interactive or background / UL:256 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 679 |
| 6.11.5.4.1.63 | Streaming / unknown / UL:16 DL:32 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 680 |
| 6.11.5.4.1.64 | Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 681 |
| 6.11.5.4.1.65 | Streaming / unknown / UL:32 DL:256 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 681 |
| 6.11.5.4.1.66 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 683 |
| 6.11.5.4.1.67 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 683 |
| 6.11.5.4.1.68 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 684 |
| 6.11.5.4.1.69 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 685 |
| 6.11.5.4.1.70 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 686 |
| 6.11.5.4.2 | Combinations on PDSCH, SCCPCH, PUSCH and PRACH..... | 688 |
| 6.11.5.4.2.1 | Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH..... | 688 |
| 6.11.5.4.2.2 | Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH | 690 |
| 6.11.5.4.2.3 | Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH..... | 691 |
| 6.11.5.4.3 | Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH | 693 |
| 6.11.5.4.3.1 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH..... | 693 |
| 6.11.5.4.3.2 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH..... | 694 |
| 6.11.5.4.3.3 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH | 695 |
| 6.11.5.4.4 | Combinations on SCCPCH | 696 |
| 6.11.5.4.4.1 | Stand-alone signalling RB for PCCH | 696 |
| 6.11.5.4.4.2 | Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH | 696 |

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| 6.11.5.4.4.2a | Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH | 697 |
| 6.11.5.4.4.2b | SRBs for CCCH + SRB for DCCH + SRB for BCCH | 698 |
| 6.11.5.4.4.3 | Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH | 698 |
| 6.11.5.4.4.3a | SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH | 699 |
| 6.11.5.4.4.4 | RB for CTCH + SRB for CCCH + SRB for BCCH | 699 |
| 6.11.5.4.4.5 | 64.8kbps RB for MTCH with 40 ms TTI..... | 700 |
| 6.11.5.4.4.6 | 129.6 kbps RB for MTCH with 40 ms TTI..... | 701 |
| 6.11.5.4.4.7 | 259.2 kbps RB for MTCH with 40 ms TTI..... | 702 |
| 6.11.5.4.4.8 | 7.6 kbps signalling RB for MCCH..... | 703 |
| 6.11.5.4.4.9 | 128kbps RB for MBSFN MTCH with 40 ms TTI | 703 |
| 6.11.5.4.4.10 | 192 kbps RB for MBSFN MTCH with 40 ms TTI | 704 |
| 6.11.5.4.4.11 | 384 kbps RB for MBSFN MTCH with 40 ms TTI | 705 |
| 6.11.5.4.4.12 | 7.2 kbps signalling RB for MBSFN MCCH | 706 |
| 6.11.5.4.4.13 | 8kbps RB for MBSFN MTCH with 40 ms TTI | 707 |
| 6.11.5.4.4.14 | 64kbps RB for MBSFN MTCH with 40 ms TTI..... | 708 |
| 6.11.5.4.5 | Combinations on PRACH | 708 |
| 6.11.5.4.5.1 | SRB for CCCH + SRBs for DCCH | 708 |
| 6.11.5.4.5.2 | Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH..... | 709 |
| 6.11.5.4.5.3 | Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH..... | 709 |
| 6.11.5.4.6 | Combinations on DPCH and HS-PDSCH | 710 |
| 6.11.5.4.6.1 | Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 710 |
| 6.11.5.4.6.1a | Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5)..... | 714 |
| 6.11.5.4.6.1b | Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (64QAM) | 715 |
| 6.11.5.4.6.2 | Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)..... | 719 |
| 6.11.5.4.6.2a | Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)..... | 719 |
| 6.11.5.4.6.3 | Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)..... | 720 |
| 6.11.5.4.6.3a | Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE category] / PS RAB +UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)..... | 720 |
| 6.11.5.4.6.4 | Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)..... | 721 |
| 6.11.5.4.6.5 | Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)..... | 721 |
| 6.11.5.4.6.6 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5) | 721 |
| 6.11.5.4.6.7 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5) | 722 |
| 6.11.5.4.6.8 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5) | 722 |
| 6.11.5.4.6.9 | Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB+UL:3.4 DL:3.4 kbps SRBs for DCCH | 723 |
| 6.11.5.4.6.10 | Conversational/Speech/UL:12.2 DL:12.2kbps/CS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH | 723 |
| 6.11.5.4.6.11 | Streaming/ UL:32 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH..... | 724 |

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| 6.11.5.4.6.12 | Streaming/ UL:16 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH..... | 725 |
| 6.11.5.4.6.13 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + interactive or Background/ UL:384 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH..... | 725 |
| 6.11.5.4.6.14 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:16 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH | 726 |
| 6.11.5.4.6.15 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:32 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH | 726 |
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| 6.11.5.4.6.17 | Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH..... | 728 |
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| 6.11.5.4.7.7 | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH | 734 |
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| 6.11.5.4.7.9 | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH..... | 735 |
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| 6.11.5.4.7.13 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 736 |
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| 6.11.5.4.7.15 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 737 |
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| 6.11.6.4.1.4a | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 766 |
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| 6.11.6.4.1.7a | Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH | 775 |
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| 6.11.6.4.1.13 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 785 |
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| 6.11.6.4.1.19 | Void | 792 |
| 6.11.6.4.1.20 | Void | 792 |
| 6.11.6.4.1.21 | Void | 792 |
| 6.11.6.4.1.22 | Void | 792 |

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| 6.11.6.4.1.23 | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 792 |
| 6.11.6.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 794 |
| 6.11.6.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 795 |
| 6.11.6.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 796 |
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| 6.11.6.4.1.24 | Void | 799 |
| 6.11.6.4.1.25 | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 799 |
| 6.11.6.4.1.26 | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 800 |
| 6.11.6.4.1.27 | Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 801 |
| 6.11.6.4.1.28 | Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 802 |
| 6.11.6.4.1.29 | Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 803 |
| 6.11.6.4.1.30 | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 804 |
| 6.11.6.4.1.31 | Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 805 |
| 6.11.6.4.1.32 | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH..... | 806 |
| 6.11.6.4.1.33 | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 807 |
| 6.11.6.4.1.34 | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 807 |
| 6.11.6.4.1.35 | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 808 |
| 6.11.6.4.1.36 | Void | 809 |
| 6.11.6.4.1.37 | Void | 809 |
| 6.11.6.4.1.38 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 809 |
| 6.11.6.4.1.38a | Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 811 |
| 6.11.6.4.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 812 |
| 6.11.6.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 813 |
| 6.11.6.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 815 |
| 6.11.6.4.1.38e | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 817 |
| 6.11.6.4.1.38f | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 818 |
| 6.11.6.4.1.38g | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 819 |
| 6.11.6.4.1.38h | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 821 |
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| 6.11.6.4.1.38j | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 824 |
| 6.11.6.4.1.39 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 825 |

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| 6.11.6.4.1.40 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH | 826 |
| 6.11.6.4.1.41 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 828 |
| 6.11.6.4.1.42 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 829 |
| 6.11.6.4.1.43 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 831 |
| 6.11.6.4.1.44 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 832 |
| 6.11.6.4.1.45 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 835 |
| 6.11.6.4.1.46 | Void | 836 |
| 6.11.6.4.1.47 | Void | 836 |
| 6.11.6.4.1.48 | Void | 836 |
| 6.11.6.4.1.49 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 836 |
| 6.11.6.4.1.49a | Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH..... | 837 |
| 6.11.6.4.1.50 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 838 |
| 6.11.6.4.1.51 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 839 |
| 6.11.6.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 841 |
| 6.11.6.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | 842 |
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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The definition of the Conformance Tests for UE in 3G will be a complex task as the complete test suite covers RF, EMC and Protocol aspects of the UE.

Each test requires a Test Environment to be defined in which the UE has to operate to defined standards, constraints and performance. The overall task can be simplified if there are a number of well defined and agreed Common Test Environments where every one can be used for a number of tests. Hence the present document defines testing conditions that are common to several tests avoiding the need to duplicate the same information for every single test.

The present document defines default values for a variety of common areas. Where values are not specified in test cases, the defaults in the present document will apply. If specified, the test case values will take precedence.

The present document addresses the FDD mode as well as the TDD mode.

1 Scope

The present document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.121-1: " User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification ".
- [2a] 3GPP TS 34.121-2: "User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)".
- [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [4] 3GPP TS 34.124: "Electromagnetic Compatibility (EMC) requirements for Mobile terminals and ancillary equipment".
- [5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio Transmission and Reception (TDD)".
- [6] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
- [7] 3GPP TS 25.301 "Radio interface protocol architecture".
- [8] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [10] 3GPP TR 25.990: "Vocabulary".
- [11] 3GPP TS 25.101: "User Equipment (UE) radio transmission and reception (FDD)".
- [12] 3GPP TS 25.102: "User Equipment (UE) radio transmission and reception (TDD)".
- [13] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [14] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
- [15] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [16] 3GPP TS 26.110: "Codec for circuit switched multimedia telephony service; General description".

- [17] 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [18] 3GPP TR 23.910: "Circuit switched data bearer service".
- [19] Void.
- [20] 3GPP TS 25.104: "Base Station (BS) radio Transmission and Reception (FDD)".
- [21] 3GPP TS 25.105: "Base Station (BS) radio Transmission and Reception (TDD)".
- [22] 3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
- [23] 3GPP TS 31.102: "Characteristics of the USIM application".
- [24] 3GPP TS 33.102: "3G security; Security architecture".
- [25] 3GPP TS 33.103: "3G security; Integration guidelines".
- [26] 3GPP TS 33.105: "Cryptographic algorithm requirements".
- [27] 3GPP TS 25.224: "Physical layer procedures (TDD)".
- [28] 3GPP TS 25.221: "Physical channels and mapping of transport channels onto physical channels (TDD)".
- [29] 3GPP TS 25.222: "Multiplexing and channel coding (TDD)".
- [30] 3GPP TS 25.133: "Requirements for support of radio resource management (FDD)".
- [31] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [32] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [33] 3GPP TS 25.171: "Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)".
- [34] 3GPP TS 25.331: "Radio Resource Control (RRC) protocol specification".
- [35] 3GPP TS 25.223: "Spreading and modulation (TDD)".
- [36] 3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".
- [37] 3GPP TS 25.123: "Requirements for support of radio resource management (TDD)".
- [38] 3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".
- [39] 3GPP TS 31.120: "UICC-terminal interface; Physical, electrical and logical test specification".
- [40] 3GPP TS 31.121: "Base Station System (BSS) equipment specification; Radio aspects".
- [41] 3GPP TS 34.171: "Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)".
- [42] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [43] NATO Standard Agreement STANAG 4294 Issue 1
- [44] 3GPP TS 43.020: "Security related network functions".
- [45] 3GPP TS 36.508: "Common test environments for User Equipment (UE) conformance testing".
- [46] 3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

- [47] 3GPP TS 37.571-1: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification".
- [48] 3GPP TS 37.571-5: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data".

3 Definitions, abbreviations and symbols

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [9], 3GPP TR 25.990 [10] and the following apply:

maximum average power: average transmitter output power obtained over any specified time interval, including periods with no transmission, when the transmit time slots are at the maximum power setting

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [9], 3GPP TR 25.990 [10] and the following apply:

| | |
|-------------|--|
| 4C-HSDPA | Four-Carrier HSDPA. HSDPA operation configured on 3 or 4 DL carriers |
| AFC | Automatic Frequency Control |
| A-GPS | Assisted - Global Positioning System |
| AM | Acknowledgement Mode |
| ATT | ATTenuator |
| BCCH | Broadcast Control Channel |
| CBS | Cell Broadcast Service |
| CC | Convolutional Coding |
| CCCH | Common Control Channel |
| CCTrCH | Coded Composite Transport Channel |
| CS | Circuit Switching |
| DB-DC-HSDPA | Dual Band Dual Cell HSDPA |
| DB-DF-3C | Dual Band Dual Frequency Three Cell |
| DB-DF-4C | Dual Band Dual Frequency Four Cell |
| DC-HSDPA | Dual Cell HSDPA |
| DCCH | Dedicated Control Channel |
| DL | DownLink |
| DPCH | Dedicated Physical Channel |
| DT | Direct transfer |
| DTCH | Dedicated Traffic Channel |
| FTM | File Tunnelling Mode |
| GPS | Global Positioning System |
| GSS | GPS System Simulator |
| HYB | HYBrid |
| IMB | Integrated Mobile Broadcast |
| MF-HSDPA | Multiflow HSDPA |
| NAS | Non-Access Stratum |
| OBW | Occupied BandWidth |
| OCNS | Orthogonal Channel Noise Simulator |

NOTE: A mechanism used to simulate the users or control signals on the other orthogonal channels of a downlink.

| | |
|-------|--------------------------------|
| PRACH | Physical Random Access Channel |
| PS | Packet Switching |
| RAB | Radio Access Bearer |
| RB | Radio Bearer |
| RRC | Radio Resource Control |

NOTE: (for sub-Layer of layer 3) but also Root-Raised Cosine (for Filter shape).

| | |
|----------|---|
| SB-DF-3C | Single Band Dual Frequency Three Cell |
| SCCPCH | Secondary Common Control Physical Channel |
| SMS | Short Message Service |
| SRB | Signalling Radio Bearer |
| SS | System Simulator |
| SSD | Source Statistics Descriptor |
| TC | Turbo Coding |
| TLM | TeLeMetry word |

NOTE: It contains an 8-bits preamble (10001011).

| | |
|------|------------------------|
| TM | Transparent Mode |
| TOW | Time Of Week |
| TTFX | Time To First Fix |
| UL | UpLink |
| UM | Unacknowledgement Mode |

3.3 Symbols

For the purposes of the present document, the following symbols apply:

| | |
|----------|---|
| I_{oc} | The power spectral density of a band limited white noise source (simulating interference from other cells) as measured at the UE antenna connector. |
|----------|---|

4 Common requirements of test equipment

Mobile conformance testing can be categorized into 3 distinct areas:

- RF Conformance Testing.
- EMC Conformance Testing.
- Signalling Conformance Testing.

The test equipment required for each category of testing may or not be different, depending on the supplier of the test equipment. However, there will be some generic requirements of the test equipment that are essential for all three categories of test, and these are specified in this clause.

In addition, there will be requirements to test operation in multi-system configurations (e.g. UTRA plus GSM/DCS1800). However, these would not form a common test equipment requirement for the three test areas and are not considered in the present document.

4.1 General Functional Requirements

NOTE: This clause has been written such that it does not constrain the implementation of different architectures and designs of test equipment.

All test equipment used to perform conformance testing on a UE shall provide a platform suitable for testing UE's that are either:

- FDD Mode; or
- TDD Mode; or
- both FDD/TDD Modes.

All test equipment shall provide (for the mode(s) supported) the following minimum functionality.

- The capability of emulating a single UTRA cell with the appropriate channels to allow the UE to register on the cell.

- The capability to allow the UE to set up an RRC connection with the System Simulator, and to maintain the connection for the duration of the test.
- The capability (for the specific test):
 - to select and support an appropriate Radio Bearer for the downlink;
 - to set the appropriate downlink power levels;
 - to set up and support the appropriate Radio Bearer for the uplink;
 - to set and control the uplink power levels.

4.2 Minimum performance levels

4.2.1 Supported Cell Configuration

The System Simulator shall provide the capability to simulate a minimum number of cells (of the appropriate UTRA Mode) whose number and capabilities are governed by the test cases that need to be performed (test cases are defined in 3GPP TS 34.123-1 [1] (Signalling), 3GPP TS 34.121 [2] (RF-FDD) and 3GPP TS 34.122 [5] (RF-TDD)). For this purpose test cases can be split into two different categories: Tests that require only one cell and Tests that require several cells.

To perform test cases requiring one cell, the system simulator must provide a Cell offering the capabilities to perform all the test cases in this category.

To perform test cases requiring several cells, additional cells must be provided by the system simulator. The additional cells, however, need only provide a minimum set of capabilities so as to support the first cell in carrying out the multi-cell test cases.

To perform test cases for MBMS in MBSFN mode the SS must provide simultaneous support for both the MBSFN cell(s) (TDD or FDD) directly applicable to the test cases and must also provide support for cells(s) on a unicast carrier providing other necessary services to the UE such as PLMN registration. The choice of supporting unicast carrier cell(s) may be TDD or FDD decided by the capabilities of the UE under test, and the choice may be independent of the mode (TDD or FDD) of the MBSFN cell(s).

The type and number of channels (especially physical channels) constitute an important set of capabilities for a cell. The following clauses list possible channels that may be supported by the SS. Each channel type, however, and the minimum number of channels needed are only mandatory if specific test cases require them.

The mapping between Logical and Transport channels is as described in 3GPP TS 25.301 [7]. Similarly the mapping between Transport channels and Physical channels is as described in 3GPP TS 25.211 [13] for the FDD mode, and 3GPP TS 25.221 [28] for the TDD mode. The reference measurement channels (mapping between Transport channels and Physical channels for DTCH/DCCH to be tested) are defined in 3GPP TS 34.121 [2] annex C for FDD and 3GPP TS 34.122 [5] annex C for TDD.

4.2.1.1 Supported Channels for FDD Mode

4.2.1.1.1 Logical channels

| Logical channel | Minimum number | Comments |
|-----------------|----------------|--|
| BCCH | 1 | |
| CCCH | 1 | |
| DCCH | 4 | 2 for RRC testing, 2 for NAS testing |
| PCCH | 1 | |
| DTCH | n <FFS> | Depending on SS's support for RB service testing (See clause 14 of 3GPP TS 34.123-1 [1]) |

4.2.1.1.2 Transport channels

| Transport channel | Minimum number | Comments |
|-------------------|----------------|----------|
| BCH | 1 | |
| FACH | 1 | |

| | | |
|--------|---------|--------------------------------|
| PCH | 1 | |
| DCH | n <FFS> | |
| DSCH | 1 | Release 99 and Release 4 only. |
| RACH | 2 | |
| CPCH | 1 | Release 99 and Release 4 only. |
| FAUSCH | N/A | Not in Release 1999 |

4.2.1.1.3 Physical channels

| Physical channel | Minimum number | Comments |
|------------------|------------------|--|
| P-CCPCH | 1 | Primary Common Control Physical channel. This is used by the Cell to Broadcast System Information messages; it is transmitted using the Primary Scrambling Code for the Cell. |
| P-CPICH | 1 | Primary Common Pilot Channel using the Primary Scrambling Code for the Cell. |
| S-CPICH | 1 (For RF Tests) | Secondary Common Pilot Channel. This signal is used as the phase reference for some RF tests. |
| SCH | 1 | Synchronization Channel (includes P-SCH and S-SCH) |
| S-CCPCH | 2 | Secondary Common Control Physical channel. |
| PICH | 1 | To identify when the UE should access the PCCH for Paging Messages. |
| AICH | 1 | General Acquisition Indicator Channel that can be used for: <ul style="list-style-type: none"> - Acquisition Indicator Channel, for PRACH - Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH. (For release 99 and release 4 only) - Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH. (For release 99 and release 4 only) |
| DPDCH | 3 | Downlink Physical Data Channel. There will be a single DPCCCH associated with all the DPDCHs used for Layer 1 signalling. This number is for the First Cell. Additional Cells may define a lower number which should be at least 1. |
| PDSCH | 1 | Physical Downlink Shared Channel. Release 99 and Release 4 only. |
| DPCH | 1 | Uplink Dedicated Physical channel |
| PRACH | 2 | Physical Random Access Channel. |
| PCPCH | 1 | Physical Common Packet Channel. (For release 99 and release 4 only) |
| CSICH | 1 | CPCH Status Indicator Channel. (For release 99 and release 4 only) |

4.2.1.2 Supported Channels for TDD Mode

4.2.1.2.1 Logical channels

| Logical channel | Minimum number | Comments |
|-------------------------|----------------|--|
| Control channels | | |
| BCCH | 1 | Broadcast Control Channel: DL channel for broadcasting system control information. |
| CCCH | 1 | Common Control Channel: Bi-directional channel for transmitting control information between network and UEs. This channel is commonly used by the UEs having no RRC connection with the network and by the UEs using common transport channels when accessing a new cell after cell reselection. |
| DCCH | 4 | Dedicated Control Channel: A point-to-point bi-directional channel that transmits dedicated control information between a UE and the network. This channel is established through RRC connection setup procedure. 2 channels for RRC testing and 2 channels for NAS testing estimated. |
| PCCH | 1 | Paging Control Channel: DL channel that transfers paging information. This channel is used when the network does not know the location cell of the UE, or, the UE is in the cell connected state |
| SHCCH | 1 | Shared Channel Control Channel: Bi-directional channel that transmits control information for uplink and downlink shared channels between network and UEs. This channel is for TDD only. |
| Traffic channels | | |
| DTCH | 1 | Dedicated Traffic Channel is a point-to-point channel, dedicated to one UE, for the transfer of user information. A DTCH can exist in both UL and DL. |

| | | |
|------|---|--|
| CTCH | 1 | Common Traffic Channel is a point-to-multipoint unidirectional channel for transfer of dedicated user information for all or a group of specified UEs. |
|------|---|--|

4.2.1.2.2 Transport channels

| Transport channel | Minimum number | Comments |
|-------------------|----------------|---|
| BCH | 1 | Broadcast Channel: DL channel used to broadcast system and cell-specific information. |
| FACH | 1 | Forward Access Channel: DL channel used to carry control information to a mobile station when the system knows the location cell of the mobile station (may also carry short user packets). |
| PCH | 1 | Paging Channel: DL channel used to carry control information to a mobile station when the system does not know the location cell of the mobile station. |
| DCH | 2 | Dedicated Channel: UL or DL channel used to carry user or control information between the UTRAN and a UE |
| DSCH | 1 | DL shared channel: DL channel shared by several UEs carrying dedicated control or traffic data. |
| USCH | 1 | UL shared channel: UL channel shared by several UEs carrying dedicated control or traffic data. |
| RACH | 1 | Random Access Channel: UL channel used to carry control information from mobile station. The RACH may also carry short user packets. |

4.2.1.2.3 Physical channels (3.84 Mcps option)

| Physical channel | Minimum number | Comments |
|------------------|----------------|---|
| P-CCPCH | 1 | Primary Common Control Physical channel. . The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH. The position (time slot / code) of the P-CCPCH is known from PSCH. |
| SCH | 1 | Synchronization Channel. Code group of a cell can be derived from the synchronization channel. In order not to limit the uplink/downlink asymmetry the SCH is mapped on one or two downlink slots per frame only. |
| S-CCPCH | 2 | Secondary Common Control Physical channel. PCH and FACH as described in clause 4.2.1 are mapped onto one or more S-CCPCH. |
| PICH | | Paging Indicator Channel is a physical channel used to carry the paging indicators. |
| DPCH (DL) | 3 | Downlink Dedicated Physical channel. DCH channels are mapped onto DPCH |
| PDSCH | 1 | Physical Downlink Shared Channel. DSCH as described in clause 4.2.1 is mapped onto one or more PDSCH. |
| DPCH (UL) | 1 | Uplink Dedicated Physical channel. DCH channels are mapped onto DPCH. |
| PUSCH | 1 | Physical Uplink Shared Channel. The USCH as described in clause 4.2.1 is mapped onto one or more PUSCH. Timing advance, as described in 3GPP TS 25.224 [27], clause 4.3, is applied to the PUSCH. |
| PRACH | 2 | Physical Random Access Channel. The RACH as described in clause 4.2.1 is mapped onto PRACH |
| PNBSCH | 1 | Physical node B synchronization channel: In case cell sync bursts are used for Node B synchronization the PNBSCH shall be used for the transmission of the cell sync burst 3GPP TS 25.223 [35]. The PNBSCH shall be mapped on the same timeslot as the PRACH. |

4.2.1.2.4 Physical channels (1.28 Mcps option)

| Physical channel | Minimum number | Comments |
|------------------|----------------|--|
| P-CCPCH | 2 | Primary Common Control Physical channel. The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH1 and P-CCPCH2. The position (time slot / code) of the P-CCPCHs is fixed in the 1.28 Mcps TDD. The P-CCPCHs are mapped onto the first two code channels of timeslot#0 with spreading factor of 16. |
| DwPCH | 1 | Synchronization Channel for DL. Present in each 5 ms subframe. |
| UpPCH | 1 | Synchronization Channel for UL. Present in each 5 ms subframe. |
| S-CCPCH | 2 | Secondary Common Control Physical channel. PCH and FACH as described in clause 4.2.1 are mapped onto one or more S-CCPCH. |

| | | |
|-----------|---|---|
| PICH | | Paging Indicator Channel is a physical channel used to carry the paging indicators. |
| DPCH (DL) | 3 | Downlink Dedicated Physical channel. DCH channels are mapped onto DPCH |
| PDSCH | 1 | Physical Downlink Shared Channel. PDSCH provides the possibility for transmission of TFCI, SS, and TPC in downlink. |
| DPCH (UL) | 1 | Uplink Dedicated Physical channel. DCH channels are mapped onto DPCH. |
| PUSCH | 1 | Physical Uplink Shared Channel. PUSCH provides the possibility for transmission of TFCI, SS, and TPC in uplink. |
| FPACH | 1 | Fast Physical Access Channel. FPACH is used by the Node B to carry, in a single burst, the acknowledgement of a detected signature with timing and power level adjustment indication to a user equipment. |
| PRACH | 2 | Physical Random Access Channel. The RACH as described in clause 4.2.1 is mapped onto one or more uplink Physical Random Access Channels (PRACH). |

4.2.1.2A Supported Channels for MBSFN (FDD and TDD Mode)

4.2.1.2A.1 Logical channels

| Logical channel | Minimum number | Comments |
|-------------------------|----------------|---|
| Control channels | | |
| BCCH | 1 | Broadcast Control Channel: DL channel for broadcasting system control information. |
| MCCH | 1 | MBMS point-to-multipoint Control Channel: A point-to-multipoint downlink channel used for transmitting control information from the network to the UE. This channel is only used by UEs that receive MBMS. |
| MSCH | 1 | MBMS point-to-multipoint Scheduling Channel: A point-to-multipoint downlink channel used for transmitting scheduling control information, from the network to the UE, for one or several MTCHs carried on a CCTrCH. This channel is only used by UEs that receive MBMS. |
| Traffic channels | | |
| MTCH | 1 | MBMS point-to-multipoint Traffic Channel: A point-to-multipoint downlink channel used for transmitting traffic data from the network to the UE. This channel is only used for MBMS. |

4.2.1.2A.2 Transport channels

| Transport channel | Minimum number | Comments |
|-------------------|----------------|--|
| BCH | 1 | Broadcast Channel: DL channel used to broadcast system and cell-specific information. |
| FACH | 2 | Forward Access Channel: Common downlink channel without closed-loop power control used for transmission of relatively small amounts of data. In addition FACH is used to carry broadcast and multicast data. |

4.2.1.2A.3 Physical channels (3.84/7.68 Mcps options)

| Physical channel | Minimum number | Comments |
|------------------|----------------|---|
| P-CCPCH | 1 | Primary Common Control Physical channel: The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH. The position (time slot / code) of the P-CCPCH is known from PSCH. |
| SCH | 1 | Synchronization Channel: Code group of a cell can be derived from the synchronization channel. In order not to limit the uplink/downlink asymmetry the SCH is mapped on one or two downlink slots per frame only. |
| S-CCPCH | 2 | Secondary Common Control Physical channel: FACH as described in clause 4.2.1 is mapped onto one or more S-CCPCH. |
| MICH | 1 | MBMS Indicator Channel: Used to carry the MBMS notification indicators |

4.2.1.2A.3A Physical channels (3.84 Mcps TDD IMB option)

| Physical channel | Minimum number | Comments |
|------------------|----------------|--|
| P-CPICH | 1 | Primary Common Pilot Channel using the Primary Scrambling Code for the Cell. |

| | | |
|----------------|---|---|
| T-CPICH | 1 | Time multiplexed Common Pilot Channel using the same Scrambling Code as P-CPICH for the Cell. |
| P-CCPCH | 1 | Primary Common Control Physical channel: The BCH as described in clause 4.2.1.2A.2 is mapped onto the P-CCPCH. |
| SCH | 1 | Synchronization Channel (includes P-SCH and S-SCH) |
| S-CCPCH | 1 | Secondary Common Control Physical channel: FACH carrying MCCH logical channel is mapped onto one S-CCPCH. |
| S-CCPCH Type 2 | 1 | Secondary Common Control Physical CHannel Type 2: one or more FACH carrying MTCH logical channels is/are mapped onto one S-CCPCH Type 2 |
| MICH | 1 | MBMS Indicator Channel: Used to carry the MBMS notification indicators |

4.2.1.3 Support of T_{cell} timing offset

In test case parameter declarations, the parameter T_{cell} may be specified between 0 to 38 399, to allow for extensibility. However, the system simulator is required only to support a maximum T_{cell} value of 2 304, with a step resolution of 256. The SS may limit a T_{cell} value of greater than 2 304, and may round T_{cell} to the nearest multiple of 256.

4.2.2 RF Performance

4.2.2.1 Frequency of Operation

The System Simulator shall be capable of adjusting the Carrier Frequency of the DL channels to any frequency allowed in the DL frequency band. The DL frequency shall be accurate to the level of accuracy set by the core specifications 3GPP TS 25.104 [20] for FDD and 3GPP TS 25.105 [21] for TDD.

For RF tests, the requirement of Test Equipment is described in 3GPP TS 34.121 [2] annex F for FDD and 3GPP TS 34.122 [5] annex F for TDD respectively.

4.2.2.2 Power Level Setting Accuracy

The system simulator shall be able to adjust the average power output of the DL Channels to meet the absolute accuracy of the system simulator DL power levels covered in clause 5.4.1 Downlink Signal Levels.

For RF tests, the requirement of Test Equipment is described in 3GPP TS 34.121 [2] annex F for FDD and 3GPP TS 34.122 [5] annex F for TDD respectively.

The system simulator shall be capable of altering the power of the DL Dedicated channels under control of the UE Layer 1 Signalling information.

4.2.2.3 Uplink Power Control

The system simulator shall be able to command the UE to transmit at the maximum level for its power class or a lower level required for specific tests. The system simulator shall also provide the capability of generating the Layer 1 Signalling information to set the power levels of the Uplink Dedicated Channels from the UE to lower levels if required.

4.2.2.4 Uplink Signal Handling

For FDD mode, the System Simulator shall not be damaged by a Power Class 1 UE transmitting at the maximum power level permitted in 3GPP TS 25.101 [11] and for TDD mode by a Power Class 2 UE transmitting at the maximum power level permitted in 3GPP TS 25.102 [12].

4.2.2.5 Uplink Sensitivity

The simulator shall be able to receive uplink transmissions from the UE when it is transmitting at the minimum power level defined in 3GPP TS 25.101 [11] for FDD mode, and 3GPP TS 25.102 [12] for TDD mode.

Editor's note: this is obviously a useful feature for the system simulator; however it is <ffs> if it should be an essential common requirement for a protocol test system.

4.2.3 Timers Tolerances

All the timers used during testing are within a tolerance margin given by the equation below. If for a specific test a different tolerance value is required then this should be specified in the relevant test document (i.e. the document where the test is described).

Timer tolerance = 10%, or $2 \times TTI + t_{\text{delta}}$, whichever value is the greater.

Where t_{delta} is 55 ms.

5 Reference test conditions

5.1 Test frequencies

The test frequencies are based the UMTS frequency bands defined in the core specifications.

To avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2.6 MHz since the channel's width is 5 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option since the channel's width is 1.6 MHz. The raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2.6 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE1: Additional regulations concerning interferences to frequency bands used by different systems may also exist. Those regulations are specific to the country where the test equipment is used and need to be taken into account if they require a higher offset than 2.6 MHz from the edge frequencies for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE2: In Band VI, to avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2.5 MHz, highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2.5 MHz from the edge frequencies since additional centre frequencies are specified according to 3GPP TS 25.101 [11].

5.1.1 FDD Mode Test frequencies

UTRA/FDD is designed to operate in one or more paired bands specified in 3GPP TS 25.101 [11]. The reference test frequencies for the common test environment for each operating bands are defined in the following tables.

In DC-HSDPA mode UE receives two cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cell. The spacing of carrier frequencies of the two cells is 5 MHz.

In DC-HSUPA mode UE transmits two cells simultaneously, the Primary uplink frequency and the Secondary uplink frequency. The spacing of carrier frequencies of the two cells is 5 MHz.

In DB-DC-HSDPA mode UE receives two cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cell. The serving and secondary serving cell are on different operating bands and therefore utilize the same reference test frequencies per operating band as in single cell operation. The same test frequency ID (Low, Mid or High) is configured on both bands. The serving cell is placed on the lowest band number and the secondary serving cell is placed on the highest band number in the band combination defined in table 5.0aA of 3GPP TS 25.101 [11].

In 4C-HSDPA mode UE receives up to four cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cells. The serving cell and the secondary serving cells configuration for single band and dual band are defined in tables 5.0aB and 5.0aC of 3GPP TS 25.101 [11] respectively. The spacing of the adjacent carrier frequencies in downlink and uplink shall be 5 MHz and Mid frequency shall be used on both the bands wherever applicable. The downlink test frequencies for the different 4C-HSDPA band combinations are specified under each associated band (A and B).

NOTE: Example 4C-HSDPA band combination II-2-IV-2: The test frequencies for the Serving Cell and one of the Secondary Serving Cells are specified in subclause 5.1.1.2 for band II (Band A); and the other two Secondary Serving Cells are specified in subclause 5.1.1.4 for band IV (Band B).

In Multiflow HSDPA mode, UE receives up to four cells simultaneously, the serving HS-DSCH cell, assisting serving HS-DSCH Cell, the secondary serving HS-DSCH cell and assisting secondary serving HS-DSCH Cell. The serving cell and the secondary serving cells configuration for single band and dual band are defined in tables 5.0aB and 5.0aC of 3GPP TS 25.101 [11] respectively. The spacing of the adjacent carrier frequencies in downlink and uplink shall be 5

MHz and Mid frequency shall be used on both the bands wherever applicable. The downlink test frequencies for the different Multiflow HSDPA band combinations are specified under each associated band (A and B).

For the requirements for UEs supporting HS-DSCH categories 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 36, 37 or 38, when the carriers are located in the same frequency band or the carriers belong to the same cell group in Multiflow mode, the spacing of the carrier frequencies of the two cells shall be 5 MHz.

For Multiflow HSDPA requirements in subclause 9.2.5, the serving HS-DSCH cell and the assisting serving HS-DSCH cell shall have the same carrier frequency, and the secondary serving HS-DSCH cell and the assisting secondary serving HS-DSCH cell shall have the same carrier frequency.

For Multiflow performance with a UE supporting one of the categories 21, 22, 23, 24, 25, 26, 27 or 28, the simplified testing method in Annex C.5.4A can be applied.

5.1.1.1 FDD reference test frequencies for Operating Band I

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 9613 | 1922.6 MHz | 10563 | 2112.6 MHz |
| Mid Range | 9750 | 1950.0 MHz | 10700 | 2140.0 MHz |
| High Range | 9887 | 1977.4 MHz | 10837 | 2167.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 9613 | 1922.6 MHz | 10563 | 2112.6 MHz |
| | Secondary Serving Cell | - | - | 10588 | 2117.6 MHz |
| Mid Range | Serving Cell | 9750 | 1950.0 MHz | 10700 | 2140.0 MHz |
| | Secondary Serving Cell | - | - | 10725 | 2145.0 MHz |
| High Range | Serving Cell | 9887 | 1977.4 MHz | 10837 | 2167.4 MHz |
| | Secondary Serving Cell | - | - | 10812 | 2162.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 9613 | 1922.6 MHz | 10563 | 2112.6 MHz |
| | Secondary Serving Cell | 9638 | 1927.6 MHz | 10588 | 2117.6 MHz |
| Mid Range | Serving Cell | 9750 | 1950.0 MHz | 10700 | 2140.0 MHz |
| | Secondary Serving Cell | 9775 | 1955.0 MHz | 10725 | 2145.0 MHz |
| High Range | Serving Cell | 9887 | 1977.4 MHz | 10837 | 2167.4 MHz |
| | Secondary Serving Cell | 9862 | 1972.4 MHz | 10812 | 2162.4 MHz |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-V-2, I-2-VIII-1, I-2-VIII-2, I-1-VIII-2, I-2-V-1, I-2-V-2, I-3, I-3-VIII-1, I-1-XXXII-2 and I-2-XXXII-1 with up to 2 uplink carriers.

NOTE See subclauses 5.1.1.5, 5.1.1.8 and 5.1.1.32 for test frequencies for the associated carriers on bands V, VIII and XXXII.

| Test Frequency ID | HS-DSCH Cell | Applicable I-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | I-1, I-2, I-3 | 9613 | 1922.6 MHz | 10563 | 2112.6 MHz |
| | Secondary Serving Cell | I-2, I-3 | 9638 | 1927.6 MHz | 10588 | 2117.6 MHz |
| | Secondary Serving Cell | I-3 | - | - | 10613 | 2122.6 MHz |
| Mid Range | Serving Cell | I-1, I-2, I-3 | 9750 | 1950.0 MHz | 10700 | 2140.0 MHz |
| | Secondary Serving Cell | I-2, I-3 | 9775 | 1955.0 MHz | 10725 | 2145.0 MHz |
| | Secondary Serving Cell | I-3 | - | - | 10750 | 2150.0 MHz |
| High Range | Serving Cell | I-1, I-2, I-3 | 9887 | 1977.4 MHz | 10837 | 2167.4 MHz |

| | | | | | | |
|--|------------------------|----------|------|------------|-------|------------|
| | Secondary Serving Cell | I-2, I-3 | 9862 | 1972.4 MHz | 10812 | 2162.4 MHz |
| | Secondary Serving Cell | I-3 | - | - | 10787 | 2157.4 MHz |

5.1.1.2 FDD reference test frequencies for Operating Band II

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 9263 | 1852.6 MHz | 9663 | 1932.6 MHz |
| Mid Range | 9400 | 1880.0 MHz | 9800 | 1960.0 MHz |
| High Range | 9537 | 1907.4 MHz | 9937 | 1987.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 9263 | 1852.6 MHz | 9663 | 1932.6 MHz |
| | Secondary Serving Cell | - | - | 9688 | 1937.6 MHz |
| Mid Range | Serving Cell | 9400 | 1880.0 MHz | 9800 | 1960.0 MHz |
| | Secondary Serving Cell | - | - | 9825 | 1965.0 MHz |
| High Range | Serving Cell | 9537 | 1907.4 MHz | 9937 | 1987.4 MHz |
| | Secondary Serving Cell | - | - | 9912 | 1982.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 9263 | 1852.6 MHz | 9663 | 1932.6 MHz |
| | Secondary Serving Cell | 9288 | 1857.6 Mhz | 9688 | 1937.6 MHz |
| Mid Range | Serving Cell | 9400 | 1880.0 MHz | 9800 | 1960.0 MHz |
| | Secondary Serving Cell | 9425 | 1885.0 Mhz | 9825 | 1965.0 MHz |
| High Range | Serving Cell | 9537 | 1907.4 MHz | 9937 | 1987.4 MHz |
| | Secondary Serving Cell | 9512 | 1902.4 Mhz | 9912 | 1982.4 MHz |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: II-1-V-2, II-1-IV-2, II-2-IV-1 and II-2-IV-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.4 for test frequencies for the associated carriers on band IV.

| Test Frequency ID | HS-DSCH Cell | Applicable II-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|-------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | II-1, II-2 | 9263 | 1852.6 MHz | 9663 | 1932.6 MHz |
| | Secondary Serving Cell | II-2 | 9288 | 1857.6 Mhz | 9688 | 1937.6 MHz |
| Mid Range | Serving Cell | II-1, II-2 | 9400 | 1880.0 MHz | 9800 | 1960.0 MHz |
| | Secondary Serving Cell | II-2 | 9425 | 1885.0 Mhz | 9825 | 1965.0 MHz |
| High Range | Serving Cell | II-1, II-2 | 9537 | 1907.4 MHz | 9937 | 1987.4 MHz |
| | Secondary Serving Cell | II-2 | 9512 | 1902.4 Mhz | 9912 | 1982.4 MHz |

5.1.1.3 FDD reference test frequencies for Operating Band III

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 938 | 1712.6 MHz | 1163 | 1807.6 MHz |
| Mid Range | 1112 | 1747.4 MHz | 1337 | 1842.4 MHz |
| High Range | 1287 | 1782.4 MHz | 1512 | 1877.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 938 | 1712.6 MHz | 1163 | 1807.6 MHz |
| | Secondary Serving Cell | - | - | 1188 | 1812.6 MHz |
| Mid Range | Serving Cell | 1112 | 1747.4 MHz | 1337 | 1842.4 MHz |
| | Secondary Serving Cell | - | - | 1362 | 1847.4 MHz |
| High Range | Serving Cell | 1287 | 1782.4 MHz | 1512 | 1877.4 MHz |
| | Secondary Serving Cell | - | - | 1487 | 1872.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 938 | 1712.6 MHz | 1163 | 1807.6 MHz |
| | Secondary Serving Cell | 963 | 1717.6 MHz | 1188 | 1812.6 MHz |
| Mid Range | Serving Cell | 1112 | 1747.4 MHz | 1337 | 1842.4 MHz |
| | Secondary Serving Cell | 1137 | 1752.4 MHz | 1362 | 1847.4 MHz |
| High Range | Serving Cell | 1287 | 1782.4 MHz | 1512 | 1877.4 MHz |
| | Secondary Serving Cell | 1262 | 1777.4 MHz | 1487 | 1872.4 MHz |

5.1.1.4 FDD reference test frequencies for Operating Band IV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 1313 | 1712.6 MHz | 1538 | 2112.6 MHz |
| Mid Range | 1450 | 1740.0 MHz | 1675 | 2140.0 MHz |
| High Range | 1512 | 1752.4 MHz | 1737 | 2152.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 1313 | 1712.6 MHz | 1538 | 2112.6 MHz |
| | Secondary Serving Cell | - | - | 1563 | 2117.6 MHz |
| Mid Range | Serving Cell | 1450 | 1740.0 MHz | 1675 | 2140.0 MHz |
| | Secondary Serving Cell | - | - | 1700 | 2145.0 MHz |
| High Range | Serving Cell | 1512 | 1752.4 MHz | 1737 | 2152.4 MHz |
| | Secondary Serving Cell | - | - | 1712 | 2147.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 1313 | 1712.6 MHz | 1538 | 2112.6 MHz |
| | Secondary Serving Cell | 1338 | 1717.6 MHz | 1563 | 2117.6 MHz |
| Mid Range | Serving Cell | 1450 | 1740.0 MHz | 1675 | 2140.0 MHz |
| | Secondary Serving Cell | 1475 | 1745.0 MHz | 1700 | 2145.0 MHz |
| High Range | Serving Cell | 1512 | 1752.4 MHz | 1737 | 2152.4 MHz |
| | Secondary Serving Cell | 1487 | 1747.4 MHz | 1712 | 2147.4 MHz |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: II-1-IV-2, II-2-IV-1 and II-2-IV-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.2 for test frequencies for the associated carriers on band II.

| Test Frequency ID | HS-DSCH Cell | Applicable IV-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|-------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Secondary Serving Cell | IV-1, IV-2 | - | - | 1538 | 2112.6 MHz |
| | Secondary Serving Cell | IV-2 | - | - | 1563 | 2117.6 MHz |
| Mid Range | Secondary Serving Cell | IV-1, IV-2 | - | - | 1675 | 2140.0 MHz |
| | Secondary Serving Cell | IV-2 | - | - | 1700 | 2145.0 MHz |
| High Range | Secondary Serving Cell | IV-1, IV-2 | - | - | 1737 | 2152.4 MHz |
| | Secondary Serving Cell | IV-2 | - | - | 1712 | 2147.4 MHz |

5.1.1.5 FDD reference test frequencies for Operating Band V

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4133 | 826.6 MHz | 4358 | 871.6 MHz |
| Mid Range | 4175 | 835.0 MHz | 4400 | 880.0 MHz |
| High Range | 4232 | 846.4 MHz | 4457 | 891.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4133 | 826.6 MHz | 4358 | 871.6 MHz |
| | Secondary Serving Cell | - | - | 4383 | 876.6 MHz |
| Mid Range | Serving Cell | 4175 | 835.0 MHz | 4400 | 880.0 MHz |
| | Secondary Serving Cell | - | - | 4425 | 885.0 MHz |
| High Range | Serving Cell | 4232 | 846.4 MHz | 4457 | 891.4 MHz |
| | Secondary Serving Cell | - | - | 4432 | 886.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4133 | 826.6 MHz | 4358 | 871.6 MHz |
| | Secondary Serving Cell | 4158 | 831.6 MHz | 4383 | 876.6 MHz |
| Mid Range | Serving Cell | 4175 | 835.0 MHz | 4400 | 880.0 MHz |
| | Secondary Serving Cell | 4200 | 840.0 MHz | 4425 | 885.0 MHz |
| High Range | Serving Cell | 4232 | 846.4 MHz | 4457 | 891.4 MHz |
| | Secondary Serving Cell | 4207 | 841.4 MHz | 4432 | 886.4 MHz |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-V-2, I-2-V-1 and I-2-V-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell | Applicable V-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Secondary Serving Cell | V-1, V-2 | - | - | 4358 | 871.6 MHz |
| | Secondary Serving Cell | V-2 | - | - | 4383 | 876.6 MHz |
| Mid Range | Secondary Serving Cell | V-1, V-2 | - | - | 4400 | 880.0 MHz |
| | Secondary Serving Cell | V-2 | - | - | 4425 | 885.0 MHz |
| High Range | Secondary Serving Cell | V-1, V-2 | - | - | 4457 | 891.4 MHz |
| | Secondary Serving Cell | V-2 | - | - | 4432 | 886.4 MHz |

5.1.1.6 FDD reference test frequencies for Operating Band VI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
|-------------------|--------|---------------------|--------|-----------------------|

| | | | | |
|------------|------|-----------|------|-----------|
| Low Range | 812 | 832.5 MHz | 1037 | 877.5 MHz |
| Mid Range | 4175 | 835.0 MHz | 4400 | 880.0 MHz |
| High Range | 837 | 837.5 MHz | 1062 | 882.5 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 812 | 832.5 MHz | 1037 | 877.5 MHz |
| | Secondary Serving Cell | - | - | 1062 | 882.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 812 | 832.5 MHz | 1037 | 877.5 MHz |
| | Secondary Serving Cell | 837 | 837.5 MHz | 1062 | 882.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

NOTE 1: For Band VI testing, the Mobile Country Code shall be set to (MCC = '442/443').

NOTE 2: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band VI and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.7 FDD reference test frequencies for Operating Band VII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 2013 | 2502.6 MHz | 2238 | 2622.6 MHz |
| Mid Range | 2175 | 2535.0 MHz | 2400 | 2655.0 MHz |
| High Range | 2337 | 2567.4 MHz | 2562 | 2687.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2013 | 2502.6 MHz | 2238 | 2622.6 MHz |
| | Secondary Serving Cell | - | - | 2263 | 2627.6 MHz |
| Mid Range | Serving Cell | 2175 | 2535.0 MHz | 2400 | 2655.0 MHz |
| | Secondary Serving Cell | - | - | 2425 | 2660.0 MHz |
| High Range | Serving Cell | 2337 | 2567.4 MHz | 2562 | 2687.4 MHz |
| | Secondary Serving Cell | - | - | 2537 | 2682.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2013 | 2502.6 MHz | 2238 | 2622.6 MHz |
| | Secondary Serving Cell | 2038 | 2507.6 MHz | 2263 | 2627.6 MHz |
| Mid Range | Serving Cell | 2175 | 2535.0 MHz | 2400 | 2655.0 MHz |

| | | | | | |
|------------|------------------------|------|------------|------|------------|
| | Secondary Serving Cell | 2200 | 2540.0 MHz | 2425 | 2660.0 MHz |
| High Range | Serving Cell | 2337 | 2567.4 MHz | 2562 | 2687.4 MHz |
| | Secondary Serving Cell | 2312 | 2562.4 MHz | 2537 | 2682.4 MHz |

5.1.1.8 FDD reference test frequencies for Operating Band VIII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 2713 | 882.6 MHz | 2938 | 927.6 MHz |
| Mid Range | 2788 | 897.6 MHz | 3013 | 942.6 MHz |
| High Range | 2862 | 912.4 MHz | 3087 | 957.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2713 | 882.6 MHz | 2938 | 927.6 MHz |
| | Secondary Serving Cell | - | - | 2963 | 932.6 MHz |
| Mid Range | Serving Cell | 2788 | 897.6 MHz | 3013 | 942.6 MHz |
| | Secondary Serving Cell | - | - | 3038 | 947.6 MHz |
| High Range | Serving Cell | 2862 | 912.4 MHz | 3087 | 957.4 MHz |
| | Secondary Serving Cell | - | - | 3062 | 952.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2713 | 882.6 MHz | 2938 | 927.6 MHz |
| | Secondary Serving Cell | 2738 | 887.6 MHz | 2963 | 932.6 MHz |
| Mid Range | Serving Cell | 2788 | 897.6 MHz | 3013 | 942.6 MHz |
| | Secondary Serving Cell | 2813 | 902.6 MHz | 3038 | 947.6 MHz |
| High Range | Serving Cell | 2862 | 912.4 MHz | 3087 | 957.4 MHz |
| | Secondary Serving Cell | 2837 | 907.4 MHz | 3062 | 952.4 MHz |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-2-VIII-1 and I-3-VIII-1 with up to 1 uplink carrier.

NOTE See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell | Applicable VIII-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|---------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Secondary Serving Cell | VIII-1 | - | - | 2938 | 927.6 MHz |
| Mid Range | Secondary Serving Cell | VIII-1 | - | - | 3013 | 942.6 MHz |
| High Range | Secondary Serving Cell | VIII-1 | - | - | 3087 | 957.4 MHz |

5.1.1.9 FDD reference test frequencies for Operating Band IX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 8 762 | 1752.4 MHz | 9 237 | 1847.4 MHz |
| Mid Range | 8 837 | 1767.4 MHz | 9 312 | 1862.4 MHz |
| High Range | 8 912 | 1782.4 MHz | 9 387 | 1877.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------------|--------|---------------------|--------|-----------------------|
| | | | | | |

| | | | | | |
|------------|------------------------|-------|------------|------|------------|
| Low Range | Serving Cell | 8762 | 1752.4 MHz | 9237 | 1847.4 MHz |
| | Secondary Serving Cell | - | - | 9262 | 1852.4 MHz |
| Mid Range | Serving Cell | 8837 | 1767.4MHz | 9312 | 1862.4 MHz |
| | Secondary Serving Cell | - | - | 9337 | 1867.4 MHz |
| High Range | Serving Cell | 8 912 | 1782.4 MHz | 9387 | 1877.4 MHz |
| | Secondary Serving Cell | - | - | 9362 | 1872.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 8762 | 1752.4 MHz | 9237 | 1847.4 MHz |
| | Secondary Serving Cell | 8787 | 1757.4 MHz | 9262 | 1852.4 MHz |
| Mid Range | Serving Cell | 8837 | 1767.4MHz | 9312 | 1862.4 MHz |
| | Secondary Serving Cell | 8862 | 1772.4MHz | 9337 | 1867.4 MHz |
| High Range | Serving Cell | 8912 | 1782.4 MHz | 9387 | 1877.4 MHz |
| | Secondary Serving Cell | 8887 | 1777.4 MHz | 9362 | 1872.4 MHz |

NOTE 1: For Band IX testing, the Mobile Country Code shall be set to (MCC = '442/443').

5.1.1.10 FDD reference test frequencies for Operating Band X

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 2888 | 1712.6 MHz | 3113 | 2112.6 MHz |
| Mid Range | 3025 | 1740.0 MHz | 3250 | 2140.0 MHz |
| High Range | 3162 | 1767.4 MHz | 3387 | 2167.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2888 | 1712.6 MHz | 3113 | 2112.6 MHz |
| | Secondary Serving Cell | - | - | 3138 | 2117.6 MHz |
| Mid Range | Serving Cell | 3025 | 1740.0 MHz | 3250 | 2140.0 MHz |
| | Secondary Serving Cell | - | - | 3275 | 2145.0 MHz |
| High Range | Serving Cell | 3162 | 1767.4 MHz | 3387 | 2167.4 MHz |
| | Secondary Serving Cell | - | - | 3362 | 2162.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 2888 | 1712.6 MHz | 3113 | 2112.6 MHz |
| | Secondary Serving Cell | 2913 | 1717.6 MHz | 3138 | 2117.6 MHz |
| Mid Range | Serving Cell | 3025 | 1740.0 MHz | 3250 | 2140.0 MHz |
| | Secondary Serving Cell | 3050 | 1745.0 MHz | 3275 | 2145.0 MHz |
| High Range | Serving Cell | 3162 | 1767.4 MHz | 3387 | 2167.4 MHz |
| | Secondary Serving Cell | 3137 | 1762.4 MHz | 3362 | 2162.4 MHz |

5.1.1.11 FDD reference test frequencies for Operating Band XI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 3487 | 1430.4 MHz | 3712 | 1478.4 MHz |
| Mid Range | 3525 | 1438.0 MHz | 3750 | 1486.0MHz |
| High Range | 3562 | 1445.4 MHz | 3787 | 1493.4MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 3487 | 1430.4 MHz | 3712 | 1478.4 MHz |
| | Secondary Serving Cell | - | - | 3737 | 1483.4 MHz |
| Mid Range | Serving Cell | 3525 | 1438.0 MHz | 3750 | 1486.0 MHz |
| | Secondary Serving Cell | - | - | 3775 | 1491.0 MHz |
| High Range | Serving Cell | 3562 | 1445.4 MHz | 3787 | 1493.4 MHz |
| | Secondary Serving Cell | - | - | 3762 | 1488.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 3487 | 1430.4 MHz | 3712 | 1478.4 MHz |
| | Secondary Serving Cell | 3512 | 1435.4 MHz | 3737 | 1483.4 MHz |
| Mid Range | Serving Cell | 3525 | 1438.0 MHz | 3750 | 1486.0 MHz |
| | Secondary Serving Cell | 3550 | 1443.0 MHz | 3775 | 1491.0 MHz |
| High Range | Serving Cell | 3562 | 1445.4 MHz | 3787 | 1493.4 MHz |
| | Secondary Serving Cell | 3537 | 1440.4 MHz | 3762 | 1488.4 MHz |

5.1.1.12 FDD reference test frequencies for Operating Band XII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 3618 | 701.6 MHz | 3843 | 731.6 MHz |
| Mid Range | 3645 | 707.0 MHz | 3870 | 737.0 MHz |
| High Range | 3677 | 713.4 MHz | 3902 | 743.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 3618 | 701.6 MHz | 3843 | 731.6 MHz |
| | Secondary Serving Cell | - | - | 3868 | 736.6 MHz |
| Mid Range | Serving Cell | 3652 | 708.4 MHz | 3877 | 738.4 MHz |
| | Secondary Serving Cell | - | - | 3902 | 743.4 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 3618 | 701.6 MHz | 3843 | 731.6 MHz |
| | Secondary Serving Cell | 3643 | 706.6 MHz | 3868 | 736.6 MHz |
| Mid Range | Serving Cell | 3652 | 708.4 MHz | 3877 | 738.4 MHz |
| | Secondary Serving Cell | 3677 | 713.4 MHz | 3902 | 743.4 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 18 MHz at Band XII and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.13 FDD reference test frequencies for Operating Band XIII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 3793 | 779.6 MHz | 4018 | 748.6 MHz |
| Mid Range | 3805 | 782.0 MHz | 4030 | 751.0 MHz |
| High Range | 3817 | 784.4 MHz | 4042 | 753.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 3842 | 779.5 MHz | 4067 | 748.5 MHz |
| | Secondary Serving Cell | - | - | 4092 | 753.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 3842 | 779.5 MHz | 4067 | 748.5 MHz |
| | Secondary Serving Cell | 3867 | 784.5 MHz | 4092 | 753.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band XIII and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.14 FDD reference test frequencies for Operating Band XIV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 3893 | 790.6 MHz | 4118 | 760.6 MHz |
| Mid Range | 3905 | 793.0 MHz | 4130 | 763.0 MHz |
| High Range | 3917 | 795.4 MHz | 4142 | 765.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 3942 | 790.5 MHz | 4167 | 760.5 MHz |
| | Secondary Serving Cell | - | - | 4192 | 765.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | - | - | - | - |

| | | | | | |
|------------|------------------------|------|-----------|------|-----------|
| | Secondary Serving Cell | - | - | - | - |
| Mid Range | Serving Cell | 3942 | 790.5 MHz | 4167 | 760.5 MHz |
| | Secondary Serving Cell | 3967 | 795.5 MHz | 4192 | 765.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band XIV and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.15 FDD reference test frequencies for Operating Band XV

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5.1.1.16 FDD reference test frequencies for Operating Band XVI

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5.1.1.17 FDD reference test frequencies for Operating Band XVII

FFS

5.1.1.18 FDD reference test frequencies for Operating Band XVIII

FFS

5.1.1.19 FDD reference test frequencies for Operating Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 387 | 832.5 MHz | 787 | 877.5 MHz |
| Mid Range | 412 | 837.5 MHz | 812 | 882.5 MHz |
| High Range | 437 | 842.5 MHz | 837 | 887.5 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 387 | 832.5 MHz | 787 | 877.5 MHz |
| | Secondary Serving Cell | - | - | 812 | 882.5 MHz |
| Mid Range | Serving Cell | 412 | 837.5 MHz | 812 | 882.5 MHz |
| | Secondary Serving Cell | - | - | 837 | 887.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 387 | 832.5 MHz | 787 | 877.5 MHz |
| | Secondary Serving Cell | 412 | 837.5 MHz | 812 | 882.5 MHz |
| Mid Range | Serving Cell | 412 | 837.5 MHz | 812 | 882.5 MHz |
| | Secondary Serving Cell | 437 | 842.5 MHz | 837 | 887.5 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 15 MHz at Band XIX and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.20 FDD reference test frequencies for Operating Band XX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4288 | 834.6 MHz | 4513 | 793.6 MHz |
| Mid Range | 4350 | 847.0 MHz | 4575 | 806.0 MHz |
| High Range | 4412 | 859.4 MHz | 4637 | 818.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4288 | 834.6 MHz | 4513 | 793.6 MHz |
| | Secondary Serving Cell | - | - | 4538 | 798.6 MHz |
| Mid Range | Serving Cell | 4338 | 844,6 MHz | 4563 | 803.6 MHz |
| | Secondary Serving Cell | - | - | 4588 | 808.6 MHz |
| High Range | Serving Cell | 4412 | 859.4 MHz | 4637 | 818.4 MHz |
| | Secondary Serving Cell | - | - | 4612 | 813.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4288 | 834.6 MHz | 4513 | 793.6 MHz |
| | Secondary Serving Cell | 4313 | 839.6 MHz | 4538 | 798.6 MHz |
| Mid Range | Serving Cell | 4338 | 844,6 MHz | 4563 | 803.6 MHz |
| | Secondary Serving Cell | 4363 | 849,6 MHz | 4588 | 808.6 MHz |
| High Range | Serving Cell | 4412 | 859.4 MHz | 4637 | 818.4 MHz |
| | Secondary Serving Cell | 4387 | 854.4 MHz | 4612 | 813.4 MHz |

5.1.1.21 FDD reference test frequencies for Operating Band XXI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 462 | 1450.4 MHz | 862 | 1498.4 MHz |
| Mid Range | 487 | 1455.4 MHz | 887 | 1503.4 MHz |
| High Range | 512 | 1460.4 MHz | 912 | 1508.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 462 | 1450.4 MHz | 862 | 1498.4 MHz |
| | Secondary Serving Cell | - | - | 887 | 1503.4 MHz |
| Mid Range | Serving Cell | 487 | 1455.4 MHz | 887 | 1503.4 MHz |
| | Secondary Serving Cell | - | - | 912 | 1508.4 MHz |
| High Range | Serving Cell | - | - | - | - |
| | Secondary Serving Cell | - | - | - | - |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 462 | 1450.4 MHz | 862 | 1498.4 MHz |
| | Secondary Serving Cell | 487 | 1455.4 MHz | 887 | 1503.4 MHz |
| Mid Range | Serving Cell | 487 | 1455.4 MHz | 887 | 1503.4 MHz |
| | Secondary Serving Cell | 512 | 1460.4 MHz | 912 | 1508.4 MHz |
| High Range | Serving Cell | - | - | - | - |

| | | | | |
|------------------------|---|---|---|---|
| Secondary Serving Cell | - | - | - | - |
|------------------------|---|---|---|---|

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 15 MHz at Band XXI and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

5.1.1.22 FDD reference test frequencies for Operating Band XXII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4438 | 3412.6 MHz | 4663 | 3512.6 MHz |
| Mid Range | 4625 | 3450.0 MHz | 4850 | 3550.0 MHz |
| High Range | 4812 | 3487.4 MHz | 5037 | 3587.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4438 | 3412.6 MHz | 4663 | 3512.6 MHz |
| | Secondary Serving Cell | - | - | 4688 | 3517.6 MHz |
| Mid Range | Serving Cell | 4625 | 3450.0 MHz | 4850 | 3550.0 MHz |
| | Secondary Serving Cell | - | - | 4875 | 3555.0 MHz |
| High Range | Serving Cell | 4812 | 3487.4 MHz | 5037 | 3587.4 MHz |
| | Secondary Serving Cell | - | - | 5012 | 3582.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4438 | 3412.6 MHz | 4663 | 3512.6 MHz |
| | Secondary Serving Cell | 4463 | 3417.6 MHz | 4688 | 3517.6 MHz |
| Mid Range | Serving Cell | 4625 | 3450.0 MHz | 4850 | 3550.0 MHz |
| | Secondary Serving Cell | 4650 | 3455.0 MHz | 4875 | 3555.0 MHz |
| High Range | Serving Cell | 4812 | 3487.4 MHz | 5037 | 3587.4 MHz |
| | Secondary Serving Cell | 4787 | 3482.4 MHz | 5012 | 3582.4 MHz |

5.1.1.23 FDD reference test frequencies for Operating Band XXIII

FFS

5.1.1.24 FDD reference test frequencies for Operating Band XXIV

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5.1.1.25 FDD reference test frequencies for Operating Band XXV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4888 | 1852.6 MHz | 5113 | 1932.6 MHz |
| Mid Range | 5037 | 1882.4 MHz | 5262 | 1962.4 MHz |
| High Range | 5187 | 1912.4 MHz | 5412 | 1992.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4888 | 1852.6 MHz | 5113 | 1932.6 MHz |
| | Secondary Serving Cell | - | - | 5138 | 1937.6 MHz |
| Mid Range | Serving Cell | 5037 | 1882.4 MHz | 5262 | 1962.4 MHz |

| | | | | | |
|------------|------------------------|------|------------|------|------------|
| | Secondary Serving Cell | - | - | 5287 | 1967.4 MHz |
| High Range | Serving Cell | 5187 | 1912.4 MHz | 5412 | 1992.4 MHz |
| | Secondary Serving Cell | - | - | 5387 | 1987.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 4888 | 1852.6 | 5113 | 1932.6 |
| | Secondary Serving Cell | 4913 | 1857,6 | 5138 | 1937.6 |
| Mid Range | Serving Cell | 5037 | 1882.4 | 5262 | 1962.4 |
| | Secondary Serving Cell | 5062 | 1887,4 | 5287 | 1967.4 |
| High Range | Serving Cell | 5187 | 1912.4 | 5412 | 1992.4 |
| | Secondary Serving Cell | 5162 | 1907,4 | 5387 | 1987.4 |

5.1.1.26 FDD reference test frequencies for Operating Band XXVI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 5538 | 816.6 MHz | 5763 | 861.6 MHz |
| Mid Range | 5612 | 831.4 MHz | 5837 | 876.4 MHz |
| High Range | 5687 | 846.4 MHz | 5912 | 891.4 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 5538 | 816.6 MHz | 5763 | 861.6 MHz |
| | Secondary Serving Cell | - | - | 5788 | 866.6 MHz |
| Mid Range | Serving Cell | 5612 | 831.4 MHz | 5837 | 876.4 MHz |
| | Secondary Serving Cell | - | - | 5862 | 881.4 MHz |
| High Range | Serving Cell | 5687 | 846.4 MHz | 5912 | 891.4 MHz |
| | Secondary Serving Cell | - | - | 5887 | 886.4 MHz |

For DC-HSUPA mode

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Serving Cell | 5538 | 816.6 MHz | 5763 | 861.6 MHz |
| | Secondary Serving Cell | 5563 | 821.6 MHz | 5788 | 866.6 MHz |
| Mid Range | Serving Cell | 5612 | 831.4 MHz | 5837 | 876.4 MHz |
| | Secondary Serving Cell | 5637 | 836.4 MHz | 5862 | 881.4 MHz |
| High Range | Serving Cell | 5687 | 846.4 MHz | 5912 | 891.4 MHz |
| | Secondary Serving Cell | 5662 | 841.4 MHz | 5887 | 886.4 MHz |

5.1.1.27 FDD reference test frequencies for Operating Band XXVII

FFS

5.1.1.28 FDD reference test frequencies for Operating Band XXVIII

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5.1.1.29 FDD reference test frequencies for Operating Band XXIX

FFS

5.1.1.30 FDD reference test frequencies for Operating Band XXX

FFS

5.1.1.31 FDD reference test frequencies for Operating Band XXXI

FFS

5.1.1.32 FDD reference test frequencies for Operating Band XXXII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | N/A | N/A | 6618 | 1454.6 MHz |
| Mid Range | N/A | N/A | 6715 | 1474.0 MHz |
| High Range | N/A | N/A | 6812 | 1493.4 MHz |

NOTE: Restricted to UTRA operation when dual band is configured (i.e. DB-DC-HSDPA or DB-DF-3C or DB-DF-4C). The downlink frequencies of this band are paired with the uplink frequencies of the other FDD band (external) of the dual band configuration.

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-XXXII-2 and I-2-XXXII-1 with 1 uplink carrier on band I.

NOTE: See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell | Applicable XXXII-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|----------------------------------|--------|---------------------|--------|-----------------------|
| Low Range | Secondary Serving Cell | XXXII-1, XXXII-2 | - | - | 6618 | 1454.6 MHz |
| | Secondary Serving Cell | XXXII-2 | - | - | 6643 | 1459.6 MHz |
| Mid Range | Secondary Serving Cell | XXXII-1, XXXII-2 | - | - | 6715 | 1474.0 MHz |
| | Secondary Serving Cell | XXXII-2 | - | - | 6740 | 1479.0 MHz |
| High Range | Secondary Serving Cell | XXXII-1, XXXII-2 | - | - | 6812 | 1493.4 MHz |
| | Secondary Serving Cell | XXXII-2 | - | - | 6787 | 1488.4 MHz |

5.1.2 TDD Mode Test frequencies

UTRA/TDD is designed to operate in one of three unpaired bands (3GPP TS 25.102 [12]). The reference test frequencies for the common test environment for each of the 3 operating bands are defined in the following tables:

5.1.2.1 Standard TDD reference test frequencies (3.84 Mcps option)

| Test Frequency ID | Band a | | Band b | | Band c | |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
| | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 9 513 | 1 902.6 MHz | 9 263 | 1 852.6 MHz | 9 563 | 1 912.6 MHz |
| Mid Range | 9 550 | 1 910 MHz | 9 400 | 1 880 MHz | 9 600 | 1 920 MHz |
| High Range | 9 587 | 1 917.4 MHz | 9 537 | 1 907.4 MHz | 9 637 | 1 927.4 MHz |
| Low Range | 10 063 | 2 012.6 MHz | 9 663 | 1 932.6 MHz | | |
| Mid Range | 10 087 | 2 017.4 MHz | 9 800 | 1 960 MHz | | |
| High Range | 10 112 | 2 022.4 MHz | 9 937 | 1 987.4 MHz | | |

5.1.2.2 Standard TDD reference test frequencies (1.28 Mcps option)

| Test Frequency ID | Band a | | Band b | | Band c | |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
| | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 9504 | 1900.8 MHz | 9254 | 1850.8 MHz | 9554 | 1910.8 MHz |

| | | | | | | |
|------------|-------|------------|------|------------|------|------------|
| Mid Range | 9550 | 1910 MHz | 9400 | 1880 MHz | 9600 | 1920 MHz |
| High Range | 9596 | 1919.2 MHz | 9546 | 1909.2 MHz | 9646 | 1929.2 MHz |
| Low Range | 10054 | 2010.8 MHz | 9654 | 1930.8 MHz | | |
| Mid Range | 10087 | 2017.4 MHz | 9800 | 1960 MHz | | |
| High Range | 10121 | 2024.2 MHz | 9946 | 1989.2 MHz | | |

| Test Frequency ID | Band d | | Band e | | Band f | |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
| | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 12854 | 2570.8 MHz | 11504 | 2300.8 MHz | 9404 | 1880.8 MHz |
| Mid Range | 12950 | 2595 MHz | 11750 | 2350 MHz | 9500 | 1900 MHz |
| High Range | 13096 | 2619.2 MHz | 11996 | 2399.2 MHz | 9596 | 1919.2 MHz |
| Low Range | | | | | | |
| Mid Range | | | | | | |
| High Range | | | | | | |

NOTE: In China, Band a only includes 2010 - 2025 MHz for 1.28 Mcps TDD option.

5.1.2.3 Standard TDD reference test frequencies (7.68 Mcps option)

| Test Frequency ID | Band a | | Band b | | Band c | |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
| | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 9 513 | 1 905 MHz | 9 275 | 1 855 MHz | 9 575 | 1 915 MHz |
| Mid Range | 9 550 | 1 910 MHz | 9 400 | 1 880 MHz | 9 600 | 1 920 MHz |
| High Range | 9 575 | 1 915 MHz | 9 525 | 1 905 MHz | 9 625 | 1 925 MHz |
| Low Range | 10 075 | 2 015 MHz | 9 675 | 1 935 MHz | | |
| Mid Range | 10 087 | 2 017.4 MHz | 9 800 | 1 960 MHz | | |
| High Range | 10 100 | 2 020 MHz | 9 925 | 1 985 MHz | | |

5.1.3 MFBI Test Frequencies

5.1.3.1 MFBI Test frequencies for operation Band II overlapping with Band XXV

- Same as per section 5.1.1.2

5.1.3.2 MFBI Test frequencies for operation Band III overlapping with Band IX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 1137 | 1752.4 MHz | 1362 | 1847.4 MHz |
| Mid Range | 1212 | 1767.4 MHz | 1437 | 1862.4 MHz |
| High Range | 1287 | 1782.4 MHz | 1512 | 1877.4 MHz |

5.1.3.3 MFBI Test frequencies for operation Band IV overlapping with Band X

- Same as per section 5.1.1.4

5.1.3.4 MFBI Test frequencies for operation Band V overlapping with Band XVIII

- FFS

5.1.3.5 MFBI Test frequencies for operation Band V overlapping with Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4162 | 832.4 MHz | 4387 | 877.4 MHz |
| Mid Range | 4187 | 837.4 MHz | 4412 | 882.4 MHz |
| High Range | 4212 | 842.4 MHz | 4437 | 887.4 MHz |

5.1.3.6 MFBI Test frequencies for operation Band V overlapping with Band XXVI

- Same as per section 5.1.1.5

5.1.3.7 MFBI Test frequencies for operation Band IX overlapping with Band III

- Same as per section 5.1.1.9

5.1.3.8 MFBI Test frequencies for operation Band X overlapping with Band IV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 2888 | 1712.6 MHz | 3113 | 2112.6 MHz |
| Mid Range | 3025 | 1740.0 MHz | 3250 | 2140.0 MHz |
| High Range | 3087 | 1752.4 MHz | 3312 | 2152.4 MHz |

5.1.3.9 MFBI Test frequencies for operation Band XVIII overlapping with Band V

- FFS

5.1.3.10 MFBI Test frequencies for operation Band XVIII overlapping with Band XXVI

- FFS

5.1.3.11 MFBI Test frequencies for operation Band XIX overlapping with Band V

- Same as per section 5.1.1.19

5.1.3.12 MFBI Test frequencies for operation Band XIX overlapping with Band XXVI

- Same as per section 5.1.1.19

5.1.3.13 MFBI Test frequencies for operation Band XXV overlapping with Band II

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 4888 | 1852.6 MHz | 5113 | 1932.6 MHz |
| Mid Range | 5025 | 1880.0 MHz | 5250 | 1960.0 MHz |
| High Range | 5162 | 1907.4 MHz | 5387 | 1987.4 MHz |

5.1.3.14 MFBI Test frequencies for operation Band XXVI overlapping with Band V

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 5588 | 826.6 MHz | 5813 | 871.6 MHz |
| Mid Range | 5630 | 835.0 MHz | 5855 | 880.0 MHz |
| High Range | 5687 | 846.4 MHz | 5912 | 891.4 MHz |

5.1.3.15 MFBI Test frequencies for operation Band XXVI overlapping with Band XVIII

- FFS

5.1.3.16 MFBI Test frequencies for operation Band XXVI overlapping with Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range | 5618 | 832.6 MHz | 5843 | 877.6 MHz |
| Mid Range | 5643 | 837.5 MHz | 5868 | 882.6 MHz |
| High Range | 5668 | 842.5 MHz | 5893 | 887.6 MHz |

5.2 Radio conditions

There are a number of radio propagation conditions defined in 3GPP TS 34.121 [2] for FDD mode and 3GPP TS 34.122 [5] for TDD mode, which may be required for a number of tests and hence can be considered as Common Conditions for FDD mode and TDD mode respectively.

NOTE: The System Simulator is required to support at least the normal Propagation Condition; support of the other propagation conditions is optional, depending on the specific test supported by the simulator.

5.2.1 Normal propagation condition

This condition provides a connection between the System Simulator that is effectively free from Additive White Gaussian Noise, and where there are no fading or multipath effects. This condition will be used for Signalling tests.

5.2.2 Static propagation condition

See 3GPP TS 34.121 [2], annex D for FDD.

For TDD mode, the propagation for the static performance measurement is an Additive White Gaussian Noise (AWGN) environment. No fading and multi-paths exist for this propagation model.

5.2.3 Multi-path fading propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD and 3GPP TS 34.122 [5], annex D for TDD.

5.2.4 Moving propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined Moving propagation conditions for TDD.

5.2.5 Birth-Death propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined Birth-Death propagation conditions for TDD.

5.2.6 High speed train conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined High speed train conditions for TDD.

5.3 Standard test signals

Reference 3GPP TS 25.101 [11] and 3GPP TS 25102 [12] for definitions of standard test signals.

5.4 Signal levels

The power levels given in clauses 5.4.1 and 5.4.2 apply for Signalling tests only. For RF tests power levels are given in 3GPP TS 34.121 [2], annex E for FDD and 3GPP TS 34.122 [5], annex E for TDD.

5.4.1 Downlink signal levels

The default signal levels are defined in clauses 6.1.5, 6.1.6, and 6.1.7 of this document. The SS shall be capable of setting these downlink signal levels, and any levels specifically defined in a test case within a maximum tolerance of +/- 3dB. If a test case fails due to inaccurate setting of the downlink signal levels by the SS, then the SS is adjusted in order that it provides the correct level, measured at the UE antenna, for the specific test case.

5.4.2 Uplink signal levels

The SS shall be capable of transmitting uplink TPC commands in order to meet the requirements specified in 3GPP TS 34.123-3 clause 7.3.2.2.14a.

5.5 Downlink Physical Channels Code Allocation

5.5.1 Downlink physical channels code allocation for Signalling (FDD)

5.5.1.1 Downlink physical channels code allocation for non-HSDPA test cases

Table 5.5.1.1.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 & Code=0 used in the non-HSDPA test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

Table 5.5.1.1.1: Non-HSDPA Downlink Physical Channels Code Allocation for SF=16 Code=0

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|---|------------------|-----------------|--|
| 0: P-CPICH | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | TS 25.213 |
| 2: PICH | 1: - | | Section 6.1.0b (SIB5) |
| 3: AICH | | | Section 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH | Sections 6.1.0b, 6.1.1 & 6.1.3 (SIB5) |
| 5: - | | | |
| 6: - | 3: - | | |
| 7: - | | | |
| 8: - | 4: S-CCPCH | 2: S-CCPCH | Code 2: Section 6.1.3 (SIB5) Code 4: Sections 6.1.1 & 6.1.2 (SIB5) Code 5: Section 6.1.2 (SIB5) See Note. |
| 9: - | | | |
| 10: - | 5: S-CCPCH | | |
| 11: - | | | |
| 12: - | 6: S-CCPCH | 3: - | Section 6.1.3 (SIB5) |
| 13: - | | | |
| 14: - | 7: - | | |
| 15: - | | - | |
| Note: The default code allocation is extracted from section 6.1.0b. The S-CCPCH channels on codes 2, 4 & 5 are defined in specific cell configurations, as per sections 6.1.1, 6.1.2 & 6.1.3. For each configuration described above, the orthogonality is respected. | | | |

5.5.1.2 Downlink physical channels code allocation for HSDPA test cases

Table 5.5.1.2.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 & Code=0 used in the HSDPA test cases. Table 5.5.1.2.2 shows the downlink code tree used for 64QAM HSDPA test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

The HS-PDSCH channels are allocated dynamically by the SS during execution of the HSDPA test case, under the same Scrambling Code as the HS-SCCH channel, on SF=16, in the range Code=1 to Code=15.

Table 5.5.1.2.1: HSDPA Downlink Physical Channels Code Allocation for SF=16 Code=0

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|------------------|------------------|--------------------------------|-----------------------|
| 0: P-CPICH | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | TS 25.213 |
| 2: PICH | 1: - | | Section 6.1.0b (SIB5) |
| 3: AICH | | | Section 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH | Section 6.1.0b (SIB5) |
| 5: - | 3: - | | |
| 6: - | | | |
| 7: - | 4: - | 2: - | - |
| 8: - | 5: - | | |
| 9: - | | | |
| 10: - | 6: - | 3: - | - |
| 11: - | | | |
| 12: - | 7: HS-SCCH | | |
| 13: - | | | |
| 14: - | | Section 9.1.1 RB Setup message | |
| 15: - | | | |

Table 5.5.1.2.2: HSDPA [64QAM] Downlink Physical Channels Code Allocation for SF=16 Code=0

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|------------------|------------------|-----------------|---|
| 0: P-CPICH | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | TS 25.213 |
| 2: PICH | 1: - | | Section 6.1.0b (SIB5) |
| 3: AICH | | | Section 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH | Section 6.1.0b (SIB5) |
| 5: - | 3: - | | |
| 6: - | | | |
| 7: - | 4: HS-SCCH1 | 2: - | Section 9.1.1 RB Setup message, condition A17a |
| 8: - | 5: HS-SCCH2 | | |
| 9: - | | | |
| 10: - | 6: - | 3: - | Section 9.1.1 RB Setup message, condition A28 (when mimo is configured) |
| 11: - | | | |
| 12: S-CPICH | 7: - | | |
| 13: DPCH- | | | |
| 14: - | | | |
| 15: - | | | |

5.5.1.3 Downlink physical channels code allocation for E-DCH test cases

Table 5.5.1.3.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 and Code=0 used in the E-DCH test cases for the case when HSDPA 64QAM is not used. Table 5.5.1.3.2 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 and Code=0 used in the E-DCH test cases for the HSDPA 64QAM case. Table 5.5.1.3.3 shows in addition to Table 5.5.1.3.2 details of the downlink code trees for the Primary Scrambling Code, SF=16 and Code=1 used in the E-DCH test cases for the HSDPA 64QAM and MIMO case. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

The HS-PDSCH channels are allocated dynamically by the SS during execution of the HSDPA test case, under the same Scrambling Code as the HS-SCCH channel, on SF=16, in the range Code=1 to Code=15 when Tables 5.5.1.3.1 or 5.5.1.3.2 are used; or in the range Code=2 to Code=15 when Table 5.5.1.3.3 is used in combination with Table 5.5.1.3.2 (HSDPA with 64QAM and MIMO).

Table 5.5.1.3.1: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=0

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|------------------|------------------|-----------------|--|
| 0: P-CPICH | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | TS 25.213 |
| 2: PICH | 1: - | | Section 6.1.0b (SIB5) |
| 3: AICH | | | Section 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH | Section 6.1.0b (SIB5) |
| 5: - | | | |
| 6: - | | | |
| 7: - | 3: - | 2: - | Section 9.1.1 RB Setup message |
| 8: - | 4: E-HICH/E-RGCH | | |
| 9: - | 5: - | | |
| 10: E-AGCH | | | |
| 11: - | 6: - | 3: - | Section 9.1.1 RB Setup message, condition A14 |
| 12: F-DPCH | | | Section 9.1.1 RB Setup message, condition A28 (when mimo is configured.) |
| 13: S-CPICH | | | |
| 14: - | 7: HS-SCCH | | Section 9.1.1 RB Setup message |
| 15: - | | | |

Table 5.5.1.3.2: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=0 with HSDPA [64QAM]

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|------------------|------------------|-----------------|---|
| 0: P-CPICH | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | TS 25.213 |
| 2: PICH | 1: - | | Section 6.1.0b (SIB5) |
| 3: AICH | | | Section 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH | Section 6.1.0b (SIB5) |
| 5: - | | | |
| 6: - | | | |
| 7: - | 3: - | 2: - | Section 9.1.1 RB Setup message |
| 8: - | 4: E-HICH/E-RGCH | | |
| 9: - | 5: - | | |
| 10: E-AGCH | | | |
| 11: F-DPCH | 6: HS-SCCH1 | 3: - | Section 9.1.1 RB Setup message, condition A17c or any other condition using 64QAM |
| 12: - | | | |
| 13: - | | | |
| 14: - | 7: HS-SCCH2 | | |
| 15: - | | | |

Table 5.5.1.3.3: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=1 with HSDPA [64QAM and MIMO]

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note |
|------------------|------------------|-----------------|---|
| 16: - | 8: - | 4: - | - |
| 17: - | | | - |
| 18: - | 9: - | | - |
| 19: - | | | - |
| 20: - | 10: - | 5:- | - |
| 21: - | | | - |
| 22: - | 11: - | | - |
| 23: - | | | - |
| 24: - | | | - |
| 25: - | 12: - | 6: - | - |
| 26: - | | | - |
| 27: - | 13: - | | - |
| 28: - | | | - |
| 29: S-CPICH | 14: - | 7: - | - |
| | | | Section 9.1.1 RB Setup message, condition A33 or any other condition using combination of 64QAM and MIMO. |
| 30: - | 15: - | | - |
| 31:- | | | - |

5.5.1.4 Downlink physical channels code allocation for MBMS/MBSFN test cases

Table 5.5.1.4 shows details of the downlink code tree for the Primary Scrambling Code used in the MBMS/MBSFN test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

Table 5.5.1.4: MBMS/MBSFN Downlink Physical Channels Code Allocation

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Code with SF=32 | Code with SF=16 | Code with SF=8 | Note |
|------------------|------------------|-----------------|-----------------|-----------------|----------------|--|
| 0: P-CPICH | 0: - | 0: - | 0: - | 0: - | 0: - | TS 25.213 |
| 1: P-CCPCH | | | | | | TS 25.213 |
| 2: PICH | 1: - | 1: S-CCPCH1 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Clause 6.1.0b (SIB5) |
| 3: AICH | | | | | | Clause 6.1.0b (SIB5) |
| 4: - | 2: - | 1: S-CCPCH1 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Clause 6.1.0b (SIB5) |
| 5: - | | | | | | |
| 6: - | 3: - | 2 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 7: - | | | | | | |
| 8: MICH | 4: - | 2 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 9: S-CCPCH2 | 5: - | | | | | |
| 10: - | 6: - | 3 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 11: - | | | | | | |
| 12: - | 7: - | 3 | 1: - | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 13: - | | | | | | |
| 14: - | 8: - | 4 | 2: S-CCPCH3 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 15: - | | | | | | |
| 16: - | 9: - | 5: - | 2: S-CCPCH3 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 17: - | | | | | | |
| 18: - | 10: - | 5: - | 2: S-CCPCH3 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 19: - | | | | | | |
| 20: - | 11: - | 6: - | 2: S-CCPCH3 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 21: - | | | | | | |
| 22: - | 12: - | 7: - | 2: S-CCPCH3 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 23: - | | | | | | |
| 24: - | 13: - | 8: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 25: - | | | | | | |
| 26: - | 14: - | 9: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 27: - | | | | | | |
| 28: - | 15: - | 10: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 29: - | | | | | | |
| 30: - | 16: - | 11: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 31: - | | | | | | |
| 32: - | 17: - | 12: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 33: - | | | | | | |
| 34: - | 18: - | 13: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 35: - | | | | | | |
| 36: - | 19: - | 14: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 37: - | | | | | | |
| 38: - | 20: - | 15: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 39: - | | | | | | |
| 40: - | 21: - | 16: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 41: - | | | | | | |
| 42: - | 22: - | 17: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 43: - | | | | | | |
| 44: - | 23: - | 18: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 45: - | | | | | | |
| 46: - | 24: - | 19: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 47: - | | | | | | |
| 48: - | 25: - | 20: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 49: - | | | | | | |
| 50: - | 26: - | 21: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 51: - | | | | | | |
| 52: - | 27: - | 22: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 53: - | | | | | | |
| 54: - | 28: - | 23: - | 3: S-CCPCH4 | 1: S-CCPCH3 | 1: S-CCPCH3 | Code 1: 129.6 kbps RB for MTCH Code 2: 64.8kbps RB for MTCH |
| 55: - | | | | | | |

| | | | | | | |
|-------|-------|-------|-------|------|-------------|------------------------|
| 55: - | | | | | | |
| 56: - | 28: - | 14: - | 7: - | | | |
| 57: - | | | | | | |
| 58: - | 29: - | | | | | |
| 59: - | | | | | | |
| 60: - | 30: - | 15: - | | | | |
| 61: - | | | | | | |
| 62: - | 31: - | | | | | |
| 63: - | | | | | | |
| 64: - | 32: - | 16: - | 8: - | 4: - | 2: S-CCPCH4 | 259.2 kbps RB for MTCH |
| 65: - | | | | | | |
| 66: - | 33: - | | | | | |
| 67: - | | | | | | |
| 68: - | 34: - | 17: - | | | | |
| 69: - | | | | | | |
| 70: - | 35: - | | | | | |
| 71: - | | | | | | |
| 72: - | 36: - | 18: - | 9: - | | | |
| 73: - | | | | | | |
| 74: - | 37: - | | | | | |
| 75: - | | | | | | |
| 76: - | 38: - | 19: - | | | | |
| 77: - | | | | | | |
| 78: - | 39: - | | | | | |
| 79: - | | | | | | |
| 80: - | 40: - | 20: - | 10: - | 5: - | | |
| 81: - | | | | | | |
| 82: - | 41: - | | | | | |
| 83: - | | | | | | |
| 84: - | 42: - | 21: - | | | | |
| 85: - | | | | | | |
| 86: - | 43: - | | | | | |
| 87: - | | | | | | |
| 88: - | 44: - | 22: - | 11: - | | | |
| 89: - | | | | | | |
| 90: - | 45: - | | | | | |
| 91: - | | | | | | |
| 92: - | 46: - | 23: - | | | | |
| 93: - | | | | | | |
| 94: - | 47: - | | | | | |
| 95: - | | | | | | |

5.5.2 Downlink physical channels code allocation for Signalling (TDD)

<FFS>

5.5.2.1 Downlink physical channels code allocation for Signalling (3.84 Mcps TDD IMB)

Table 5.5.2.1 shows details of the downlink code tree for the Primary Scrambling Code used in the MBSFN test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

Table 5.5.2.1: MBSFN Downlink Physical Channels Code Allocation (3.84 Mcps TDD IMB)

| Physical Channels | Spreading Factor | Code index | Note |
|-------------------|------------------|------------|-----------|
| P-CCPCH | 256 | 1 | TS 25.223 |
| P-CPICH | 256 | 0 | TS 25.223 |
| T-CPICH | 16 | 1 to 15 | TS 25.223 |
| S-CCPCH | 256 | 2 to 15 | TS 25.223 |
| S-CCPCH Type 2 | 16 | 1 to 15 | TS 25.223 |
| MICH | 256 | 2 to 15 | TS 25.223 |

5.5.2.2 Physical channels code allocation for Signalling (1.28 Mcps TDD)

Table 5.5.2.2 shows details of the physical channel code used in the test cases. The numbers in the Code columns indicate the timeslot and code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

Table 5.5.2.2: Physical Channels Code Allocation (1.28 Mcps TDD IMB)

| Physical Channels | Time slot | Spreading Factor | Code index | Note |
|-------------------|-----------|------------------|------------|-----------|
| P-CCPCH | 0 | 16 | 0, 1 | TS 25.223 |
| P-RACH | 1 | 8 | 7, 8 | TS 25.223 |
| FPACH | 0 | 16 | 15 | TS 25.223 |
| PICH | 0 | 16 | 5, 6 | TS 25.223 |
| S-CCPCH | 0 | 16 | 7, 8 | TS 25.223 |
| HS-SCCH | 6 | 16 | 11, 12 | TS 25.223 |
| HS-SICH | 1 | 16 | 13 | TS 25.223 |
| ERUCCH | 1 | 8 | 8 | TS 25.223 |
| E-AGCH | 6 | 16 | 13, 14 | TS 25.223 |
| E-HICH | 6 | 16 | 15 | TS 25.223 |

5.5.3 Downlink physical channels code allocation for RF

The downlink physical channels code allocation for RF tests is defined in 3GPP TS 34.121 [2] Annex E.6.

6 Reference system configurations

This clause defines a number of Reference System Configurations which can be used for different tests.

6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD), dual mode networks (FDD+TDD), or inter-RAT networks (FDD or TDD + GSM).

The following tables list the default parameters for 1 to 8 cell environments for testing.

To simplify TTCN implementation the total number of simultaneous cells in intra-frequency, inter-frequency and inter-RAT cell information lists (SIB11) have been limited to 8 (or 16 in MBMS test cases) and a specific cell numbering scheme have been defined to associate cell identifiers with type of cell.

- Cell 1, Cell 2, Cell 3, Cell 7, Cell 8 and Cell 11 are associated with FDD/TDD cells using frequency f1; Note that Cell 7 and Cell 8 can be configured on frequency f3 in some cases.
- Cell 4, Cell 5 and Cell 6 are associated with FDD/TDD cells using frequency f2;
- Cell 9 and Cell 10 are associated with GSM cells;
- Cell 21, Cell 22, Cell 23, Cell 27 and Cell 28 are associated with MBMS cells using frequency f1; Note that Cell 27 and Cell 28 can be configured on frequency f3 in some cases.
- Cell 24, Cell 25 and Cell 26 are associated with MBMS cells using frequency f2.
- Cell 31, Cell 32, Cell 37 and Cell 38 are associated with MBMS in MBSFN mode cells (clusters) using frequency f1 (FDD and TDD).
- Cell 33, Cell 34, Cell 35 and Cell 36 are associated with MBMS in MBSFN mode clusters using frequency f2. Note that Cell 36 and/or Cell 37 can be configured on frequency f3 in some cases (FDD and TDD).
- Cell 39 is associated with WLAN AP using Mid range frequency as defined in 36.508[45]

Note: For the purpose of protocol conformance testing the simulation of an MBSFN cluster may be achieved with a single MBSFN cell.

For protocol testing in FDD and TDD intra- and inter-frequency cell environment Cell 1 to Cell 8 are used.

For RF and RRM in FDD and TDD intra- and inter-frequency cell environment Cell 1 to Cell 8 and Cell 11 are used.

For FDD/GSM and TDD/GSM inter-RAT cell environment Cell 1 to Cell 6, Cell 9 and Cell 10 are used.

For RAN assisted WLAN interworking FDD cell+ WLAN AP and TDD cell+ WLAN AP scenarios Cell 1 and Cell 39 are used.

For FDD inter-band testing the cells using frequency f1 are on one supported FDD band and the cells using frequency f2 are on a different supported FDD band. FDD inter-band testing only applies for UEs supporting multiple FDD bands simultaneously.

For MBMS testing intra- and inter-frequency cell environment Cell 21 to Cell 28 are used.

For MBSFN testing intra- and inter-frequency cell environment Cell 31 to Cell 38 are used (FDD and TDD).

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

If a test case includes cells in a band which only exist in one country, the MCC of these cells shall be set to the MCC of this country. Also, unless this test case is simulating a inter-PLMN scenario with a foreign MCC, the MCC of all cells in the test case shall be set to the MCC of this country too.

6.1.0a Default Master Information Block and Scheduling Block messages

6.1.0a.1 Grouping SIBs for testing

| | | |
|---|-------------------------------|--|
| Mandatory in 34.108 | Used in Idle Mode | MIB, SB1, (SB2), SIB1, SIB2, SIB3, SIB5/SIB5bis, SIB7, SIB11 |
| | Used in Connected Mode | SIB4, SIB6, SIB12 |
| Mandatory for FDD CPCH (R99 and Rel-4 only) | | SIB8, SIB9 |
| Mandatory for FDD DRAC | | SIB10 |
| Mandatory for TDD | | SIB14, SIB17 |
| Mandatory for LCS | | SIB15, SIB15.1, SIB15.2, SIB15.3 |
| Mandatory for ANSI-41 system | | SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4 |
| Mandatory for InterSys HO from GERAN To UTRAN | | SIB16 |
| Mandatory for Cell reselection | | SIB18 |
| Mandatory for Inter-RAT frequencies and priority information | | SIB19 |
| Mandatory for EAB | | SIB21 |
| Mandatory for Concurrent deployment of 2ms and 10ms TTI in a cell, NodeB triggered HS-DPCCH transmission, Fallback to R99 PRACH, TTI alignment, Per HARQ process activation and de-activation and HS-DSCH DRX operation with second DRX cycle in CELL_FACH | | SIB22 |
| Mandatory for RAN assisted WLAN interworking | | SIB23 |

6.1.0a.2 SIB configurations

The following SIB configurations are used.

Configuration 1 is the default. It is used for the following test case scenarios:

- UTRAN/FDD only SYSTEM.
- UTRAN/FDD + GERAN SYSTEM (not involving inter-RAT handover from GERAN to UTRAN).
- UTRAN/TDD only SYSTEM.
- UTRAN/TDD + GERAN SYSTEM (not involving inter-RAT handover from GERAN to UTRAN).
- inter-RAT handover from GERAN to UTRAN test cases.

Configuration 2 is for test cases which need two S_{CCPCH} or two PRACH.

Configuration 3 is for inter-RAT handover from GERAN to UTRAN test cases.

Configuration 4 is applied to MBMS test cases.

Configuration 5 is applied to MBMS MBSFN test cases.

Configuration 6 is applied to the interRAT E-UTRA - UTRA test. The UTRA SIB scheduling is referred to 36.508 [45] clause 4.4.4.2.

Configuration 7 is applied to the interRAT EUTRA - UTRA - GERAN test. The UTRA SIB scheduling is referred to 36.508 [45] clause 4.4.4.3.

Configuration 8 is applied to the test cases which need a long SIB5/SIB5bis content: for example, enhanced FACH Uplink.

Configuration 9 is applied to the EAB test cases which need SIB21.

Configuration 10 is applied to test cases for Concurrent deployment of 2ms and 10ms TTI in a cell, NodeB triggered HS-DPCCH transmission, Fallback to R99 PRACH, TTI alignment, Per HARQ process activation and de-activation and HS-DSCH DRX operation with second DRX cycle in CELL_FACH which need SIB22 and long SIB5/SIB5bis.

Configuration 11 is applied to the RAN Assisted WLAN interworking test cases which need SIB23

| | |
|---|---|
| Configuration 1 or configuration 8 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18 |
|---|---|

| | |
|-------------------------|---|
| Configuration 2 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18 |
| Configuration 3 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18 |
| Configuration 4 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB11bis (empty segment), SIB16, SIB18 |
| Configuration 5 | MIB, SIB3, SIB5/SIB5bis, SIB11 |
| Configuration 6 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18, SIB19 |
| Configuration 7 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18, SIB19 |
| Configuration 9 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB21 |
| Configuration 10 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB22 |
| Configuration 11 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB23 |

6.1.0a.3 SIB default schedule

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|
| SIB_REP | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 |
| SEG_COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 3 | 3 | 1 |

| | | | | | | | | |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| Block Type | MIB | SB1 | SIB7 | SIB6 | MIB | SIB6 | SIB6 | SIB6 |
| Frame No / SIB_POS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| Block Type | MIB | SB1 | SIB7/SIB3 | SIB1/SIB2 | MIB | SIB12 | SIB12 | SIB12 |
| Frame No / SIB_POS | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| Block Type | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| Block Type | MIB | SB1 | SIB7/SIB4 | - | MIB | SIB11 | SIB11 | SIB11 |

The SEG_COUNT in the table specifies the maximum possible transport BCH blocks scheduled for broadcasting. The more contents a SIB has, the more transport BCH blocks are needed for broadcasting. In order to keep SIB repetition period, SIB_REP, unchanged in different test cases, each specific SIB in the individual test cases after the PER encoding shall not exceed the SEG_COUNT scheduled.

If the transport BCH blocks actually required for a SIB is less than the scheduled SEG_COUNT, the no_segment blocks shall be placed at the rest scheduled transport BCH blocks. In addition, the corresponding SEG_COUNT IE value in MIB or in SB1 shall be set to the number of transport BCH blocks actually required.

Contents of Master Information Block PLMN type is the case of GSM-MAP

| | |
|---|---|
| <ul style="list-style-type: none"> - MIB value tag - Supported PLMN types - PLMN type <ul style="list-style-type: none"> - PLMN identity - MCC digit - MNC digit - ANSI-41 Core Network information - References to other system information blocks and scheduling blocks - References to other system information blocks <ul style="list-style-type: none"> - Scheduling information - CHOICE Value tag <ul style="list-style-type: none"> - Cell Value tag - Scheduling <ul style="list-style-type: none"> - SEG_COUNT - SIB_REP - SIB_POS - SIB_POS offset info - SIB and SB type - Scheduling information <ul style="list-style-type: none"> - CHOICE Value tag <ul style="list-style-type: none"> - PLMN Value tag - SEG_COUNT - SIB_REP - SIB_POS - SIB_POS offset info - SIB and SB type - Scheduling information <ul style="list-style-type: none"> - CHOICE Value tag <ul style="list-style-type: none"> - Cell Value tag - SEG_COUNT - SIB_REP - SIB_POS - SIB_POS offset info - SIB and SB type - Scheduling information <ul style="list-style-type: none"> - CHOICE Value tag <ul style="list-style-type: none"> - Cell Value tag - SEG_COUNT - SIB_REP - SIB_POS | <p>A valid MIB value tag value as defined in TS 25.331 [34]</p> <p>GSM-MAP</p> <p>Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Not Present</p> <p>Cell Value Tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>16</p> <p>2</p> <p>Not Present - use default</p> <p>Scheduling Block 1</p> <p>PLMN Value tag</p> <p>A valid PLMN value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>22</p> <p>Not Present - use default</p> <p>System Information Type 1</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>22</p> <p>Not Present - use default</p> <p>System Information Type 2</p> <p>Cell Value tag</p> <p>1</p> <p>1</p> <p>64</p> <p>20</p> |
| <ul style="list-style-type: none"> - SIB_POS offset info - SIB and SB type - Scheduling information <ul style="list-style-type: none"> - CHOICE Value tag <ul style="list-style-type: none"> - Cell Value tag - SEG_COUNT - SIB_REP - SIB_POS - SIB_POS offset info - SIB and SB type - Scheduling information <ul style="list-style-type: none"> - CHOICE Value tag <ul style="list-style-type: none"> - Cell Value tag - SEG_COUNT - SIB_REP - SIB_POS - SIB_POS offset info - SIB_OFF - SIB_OFF - SIB_OFF - SIB and SB type | <p>Not Present - use default</p> <p>System Information Type 3</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>52</p> <p>Not Present - use default</p> <p>System Information Type 4</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>4</p> <p>64</p> <p>38</p> <p>4</p> <p>2</p> <p>2</p> <p>System Information Type 5 / System Information Type 5bis</p> |
| <ul style="list-style-type: none"> - CSG Indicator | <p>Not Present</p> |

NOTE: System Information Type 5 or System Information Type 5bis are used dependent on the frequency band variant used by the SS.

Contents of Scheduling Block 1 (FDD and 1.28 Mcps TDD)

| | |
|---|---|
| - References to other system information blocks | |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 4 |
| - SIB_REP | 64 |
| - SIB_POS | 6 |
| - SIB_POS offset info | |
| - SIB_OFF | 4 |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 6 |
| - Scheduling information | |
| - CHOICE Value tag | Not Present |
| - SEG_COUNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 4 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 7 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 58 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 11 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 26 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 12 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 36 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 18 |

Contents of Scheduling Block 1 (3.84 Mcps TDD and 7.68 Mcps TDD)

| | |
|---|---|
| - References to other system information blocks | |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 4 |
| - SIB_REP | 128 |
| - SIB_POS | 3 |
| - SIB_POS offset info | |

| | |
|--------------------------|---|
| - SIB_OFF | 4 |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 6 |
| - Scheduling information | |
| - CHOICE Value tag | Not Present |
| - SEG_COUNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 2 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 7 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 29 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 11 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 13 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 12 |
| - Scheduling information | |
| - CHOICE Value tag | Not Present |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 54 |
| - SIB_POS offset info | Not Present - use default |
| - SIB type SIBs only | System Information Type 14 |
| - Scheduling information | |
| - CHOICE Value tag | PLMN Value tag |
| - PLMN Value tag | A valid PLMN value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 6 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 18 |

6.1.0a.4 SIB special schedules

6.1.0a.4.1 SIB schedule for two S-CCPCH or two PRACH (For FDD and 1.28Mcps TDD)

Table 1

| | | | | | | | | |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| Frame No. | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| REP-POS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Block Type | MIB | SB1 | SB1 | | MIB | SIB1 | SIB18 | SIB2 |
| Frame No. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| REP-POS | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | | SIB4 |
| Frame No. | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| REP-POS | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Block Type | MIB | SB1 | SB1 | SIB5/ SIB5bis | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB5/ SIB5bis |
| Frame No. | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |

| | | | | | | | | |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| REP-POS | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |
| Frame No. | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 |
| REP-POS | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Block Type | MIB | SB1 | SB1 | SIB5/ SIB5bis | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB5/ SIB5bis |
| Frame No. | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 |
| REP-POS | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | | SIB4 |
| Frame No. | 96 | 98 | 100 | 102 | 104 | 106 | 108 | 110 |
| REP-POS | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| Block Type | MIB | SB1 | SB1 | | MIB | | | |
| Frame No. | 112 | 114 | 116 | 118 | 120 | 122 | 124 | 126 |
| REP-POS | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB12 | SIB12 | SIB12 |

SIB-repeat period (in frame)

Table 2

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/ SIB5bis | SIB7 | SIB11 | SIB12 | SIB18 |
|------------------------|-----|-----|------|------|------|------|------------------|------|-------|-------|-------|
| SIB Rep | 8 | 16 | 128 | 128 | 64 | 64 | 128 | 32 | 128 | 128 | 128 |
| Max. No of seg. | 1 | 2 | 1 | 1 | 1 | 1 | 8 | 1 | 3 | 3 | 1 |

6.1.0a.4.2 SIB schedule for Idle Mode, Measurement and Inter RAT UTRAN to GERAN test cases

| | | | | | | | | |
|-------------------|-----|-----|------------------|------------------|-----|------------------|------------------|----------------|
| Frame No. | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| REP-POS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Block Type | MIB | SB1 | SIB6 | SIB6 | MIB | SIB6 | SIB6 | SIB7/ SIB3 |
| Frame No. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| REP-POS | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Block Type | MIB | SB1 | SIB1/SIB2 | SIB12 | MIB | SIB12 | SIB12 | SIB7/ SIB12 |
| Frame No. | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| REP-POS | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Block Type | MIB | SB1 | SIB5/ SIB5bis | SIB5/ SIB5bis | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB7/ SIB18 |
| Frame No. | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| REP-POS | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Block Type | MIB | SB1 | SIB11 | SIB11 | MIB | SIB11 | SIB11 | SIB7/SIB 4 |

SIB-repeat period (in frame)

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/ SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|------------------------|-----|-----|------|------|------|------|------------------|------|------|-------|-------|-------|
| SIB Rep | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 |
| Max. No of seg. | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 4 | 4 | 1 |

6.1.0a.4.3 SIB schedule for Inter RAT handover GERAN to UTRAN test cases

| | | | | | | | | |
|-------------------|-----|-----|-----|---|-----|------|-------|------|
| Frame No. | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| REP-POS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Block Type | MIB | SB1 | SB1 | | MIB | SIB1 | SIB18 | SIB2 |

| | | | | | | | | |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| Frame No. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| REP-POS | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | | SIB4 |

| | | | | | | | | |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| Frame No. | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| REP-POS | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Block Type | MIB | SB1 | SB1 | SIB5/ SIB5bis | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB5/ SIB5bis |

| | | | | | | | | |
|-------------------|-----|-----|-----|------|-----|-------|-------|-------|
| Frame No. | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| REP-POS | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |

| | | | | | | | | |
|-------------------|-----|-----|-----|-------|-----|-------|-------|-------|
| Frame No. | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 |
| REP-POS | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Block Type | MIB | SB1 | SB1 | SIB16 | MIB | SIB16 | SIB16 | SIB16 |

| | | | | | | | | |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| Frame No. | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 |
| REP-POS | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | | SIB4 |

| | | | | | | | | |
|-------------------|-----|-----|-----|-------|-----|-------|-------|-------|
| Frame No. | 96 | 98 | 100 | 102 | 104 | 106 | 108 | 110 |
| REP-POS | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| Block Type | MIB | SB1 | SB1 | SIB16 | MIB | SIB16 | SIB16 | SIB16 |

| | | | | | | | | |
|-------------------|-----|-----|-----|------|-----|-----|-----|-----|
| Frame No. | 112 | 114 | 116 | 118 | 120 | 122 | 124 | 126 |
| REP-POS | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | | | |

SIB-repeat period (in frame)

| | | | | | | | | | | | |
|------------------------|-----|-----|------|------|------|------|------------------|------|-------|-------|-------|
| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/ SIB5bis | SIB7 | SIB11 | SIB16 | SIB18 |
| SIB Rep | 8 | 16 | 128 | 128 | 64 | 64 | 128 | 32 | 128 | 128 | 128 |
| Max. No of seg. | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 3 | 8 | 1 |

6.1.0a.4.4 SIB schedule for MBMS test cases

Table 3

| | | | | | | | | |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| Frame No. | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| REP-POS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Block Type | MIB | SB1 | SB1 | SIB6 | MIB | SIB1 | SIB18 | SIB2 |
| Frame No. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| REP-POS | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | SIB6 | SIB4 |
| Frame No. | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| REP-POS | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Block Type | MIB | SB1 | SB1 | SIB5/ SIB5bis | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB5/ SIB5bis |
| Frame No. | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| REP-POS | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB5/ SIB5bis | SIB5/ SIB5bis | SIB5/ SIB5bis |
| Frame No. | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 |
| REP-POS | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Block Type | MIB | SB1 | SB1 | SIB11 | MIB | SIB11 | SIB11 | SIB11 |
| Frame No. | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 |
| REP-POS | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |
| Frame No. | 96 | 98 | 100 | 102 | 104 | 106 | 108 | 110 |
| REP-POS | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| Block Type | MIB | SB1 | SB1 | SIB12 | MIB | SIB12 | | |
| Frame No. | 112 | 114 | 116 | 118 | 120 | 122 | 124 | 126 |
| REP-POS | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| Block Type | MIB | SB1 | SB1 | SIB7 | MIB | SIB11bis | SIB11bis | SIB11bis |

SIB-repeat period (in frame)

Table 4

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/ SIB5bis | SIB6 | SIB7 | SIB11 | SIB11 bis | SIB12 | SIB18 |
|------------------------|-----|-----|------|------|------|------|------------------|------|------|-------|--------------|-------|-------|
| SIB Rep | 8 | 16 | 128 | 128 | 128 | 128 | 128 | 128 | 32 | 128 | 128 | 128 | 128 |
| Max. No of seg. | 1 | 2 | 1 | 1 | 1 | 1 | 7 | 2 | 1 | 7 | 3 | 2 | 1 |

6.1.0a.4.5 SIB schedule for MBMS MBSFN test cases

Contents of Master Information Block in the case where PLMN type is GSM-MAP

| | |
|---|---|
| - MIB value tag | A valid MIB value tag value as defined in TS 25.331 [34] |
| - Supported PLMN types | |
| - PLMN type | GSM-MAP |
| - PLMN identity | |
| - MCC digit | Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)). |
| - MNC digit | Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)). |
| - ANSI-41 Core Network information | Not Present |
| - References to other system information blocks and scheduling blocks | |
| - References to other system information blocks | |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value Tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - Scheduling | |
| - SEG_COUNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 2 |
| - SIB_POS offset info | Not Present - use default |
| - SIB and SB type | System Information Type 3 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value Tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - Scheduling | |
| - SEG_COUNT | 2 |
| - SIB_REP | 16 |
| - SIB_POS | 4 |
| - SIB_POS offset info | Not Present - use default |
| - SIB and SB type | System Information Type 5 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - Scheduling | |
| - SEG_COUNT | 2 |
| - SIB_REP | 16 |
| - SIB_POS | 10 |
| - SIB_POS offset info | Not Present - use default |
| - SIB and SB type | System Information Type 11 |

SIB schedule

| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
|--------------------|-----|------|------|------|-------|-------|-------|----|
| Block Type | MIB | SIB3 | SIB5 | SIB5 | SIB11 | SIB11 | SIB11 | - |

SIB-repeat period (in frame)

| Block Type | MIB | SIB3 | SIB5 | SIB11 |
|-----------------|-----|------|------|-------|
| SIB Rep | 16 | 16 | 16 | 16 |
| Max. No of seg. | 1 | 1 | 2 | 3 |

6.1.0a.4.6 SIB default schedule for long SIB5/SIB5bis

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|
| SIB_REP | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 |
| SEG_COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 3 | 2 | 1 |

| | | | | | | | | |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| Block Type | MIB | SB1 | SIB7 | SIB6 | MIB | SIB6 | SIB6 | SIB6 |
| Frame No / SIB_POS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| Block Type | MIB | SB1 | SIB7/SIB3 | SIB1/SIB2 | MIB | SIB12 | SIB12 | SIB5/SIB5bis |
| Frame No / SIB_POS | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| Block Type | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| Block Type | MIB | SB1 | SIB7/SIB4 | SIB5/SIB5bis | MIB | SIB11 | SIB11 | SIB11 |

6.1.0a.4.7 SIB schedule for EAB test cases

| | | | | | | | | | | | | | |
|-------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB21 |
| SIB_REP | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 | 64 |
| SEG COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 3 | 3 | 1 | 1 |

| | | | | | | | | |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| Block Type | MIB | SB1 | SIB7 | SIB6 | MIB | SIB6 | SIB6 | SIB6 |
| Frame No / SIB_POS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| Block Type | MIB | SB1 | SIB7/SIB3 | SIB1/SIB2 | MIB | SIB12 | SIB12 | SIB12 |
| Frame No / SIB_POS | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| Block Type | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| Block Type | MIB | SB1 | SIB7/SIB4 | SIB21 | MIB | SIB11 | SIB11 | SIB11 |

6.1.0a.4.8 SIB schedule for test cases that require SIB22

| | | | | | | | | | | | | | |
|-------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB22 |
| SIB_REP | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 | 64 |
| SEG COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 3 | 1 | 1 | 1 |

| | | | | | | | | |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| Block Type | MIB | SB1 | SIB7 | SIB6 | MIB | SIB6 | SIB6 | SIB6 |
| Frame No / SIB_POS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| Block Type | MIB | SB1 | SIB7/SIB3 | SIB1/SIB2 | MIB | SIB12 | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| Block Type | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| Block Type | MIB | SB1 | SIB7/SIB4 | SIB22 | MIB | SIB11 | SIB11 | SIB11 |

6.1.0a.4.9 SIB schedule for RAN Assisted WLAN interworking test cases

| | | | | | | | | | | | | | |
|--------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| Block | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB23 |
|--------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|

| | | | | | | | | | | | | | |
|-----------|---|----|----|----|----|----|----|----|----|----|----|----|----|
| Type | | | | | | | | | | | | | |
| SIB_REP | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 | 64 |
| SEG_COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 3 | 1 | 1 | 1 |

| | | | | | | | | |
|--------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Frame No / SIB_POS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| Block Type | MIB | SB1 | SIB7 | SIB6 | MIB | SIB6 | SIB6 | SIB6 |
| Frame No / SIB_POS | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| Block Type | MIB | SB1 | SIB7/SIB3 | SIB1/SIB2 | MIB | SIB12 | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| Block Type | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
| Block Type | MIB | SB1 | SIB7/SIB4 | SIB23 | MIB | SIB11 | SIB11 | SIB11 |

6.1.0b Default System Information Block Messages

Contents of System Information Block type 1 (supported PLMN type is GSM-MAP)

| | | |
|--|--------|--|
| <ul style="list-style-type: none"> - CN common GSM-MAP NAS system information - GSM-MAP NAS system information - CN domain system information - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient | A1 | <ul style="list-style-type: none"> 00 01H PS GSM-MAP 05 00H 7 CS GSM-MAP 1E 01H 7 |
| <ul style="list-style-type: none"> - CN common GSM-MAP NAS system information - GSM-MAP NAS system information - CN domain system information - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient | A2 | <ul style="list-style-type: none"> 00 80H (see note) PS GSM-MAP 00 00H (see note) 7 CS GSM-MAP 1E 01H 7 |
| <ul style="list-style-type: none"> - UE Timers and constants in idle mode - T300 - N300 - T312 - N312 - UE Timers and constants in connected mode - T301 - N301 - T302 - N302 - T304 - N304 - T305 - T307 - T308 - T309 | A1, A2 | <ul style="list-style-type: none"> 4 000 milliseconds 3 10 seconds 1 Not Present (2 000 milliseconds: default value) Not Present (2: default value) Not Present (4 000 milliseconds: default value) Not Present (3: default value) Not Present (2 000 milliseconds: default value) Not Present (2: default value) Not Present (30 minutes: default value) Not Present (30 seconds: default value) Not Present (160 milliseconds: default value) Not Present (5 seconds: default value) |

| | |
|---|---|
| - T310 | Not Present (160 milliseconds: default value) |
| - N310 | Not Present (4: default value) |
| - T311 | Not Present (2 000 milliseconds: default value) |
| - T312 | Not Present (1 seconds: default value) |
| - N312 | Not Present (1: default value) |
| - T313 | Not Present (3 seconds: default value) |
| - N313 | Not Present (20: default value) |
| - T314 | Not Present (12 seconds: default value) |
| - T315 | Not Present (180 seconds: default value) |
| - N315 | Not Present (1: default value) |
| - T316 | Not Present (30 seconds: default value) |
| - T317 | Not Present (infinity: default value) |
| NOTE: For Inter-RAT test cases GERAN and UTRAN cells use different LAC and RAC. | |

| Condition | Explanation |
|-----------|--------------------------------------|
| A1 | UTRAN cell environment |
| A2 | UTRAN/GSM inter-RAT cell environment |

Contents of System Information Block type 2

| | |
|---------------------|--|
| - URA identity list | <i>Only 1 URA identity broadcasted</i> |
| - URA identity | 0000 0000 0000 0001B |

Contents of System Information Block type 3 (FDD)

| Information Element | Value/remark | Version |
|--|-------------------------------------|---------|
| - SIB4 indicator | TRUE | |
| - Cell identity | 0000 0000 0000 0000 0000 0000 0001B | |
| - Cell selection and re-selection info | | |
| - Mapping info | Not Present | |
| - Cell selection and reselection quality measure | CPICH RSCP | |
| - CHOICE mode | FDD | |
| - Sintrasearch | 8 (16 dB) | |
| - Sintersearch | 8 (16 dB) | |
| - SsearchHCS | Not Present | |
| - RAT List | This parameter is configurable | |
| - RAT identifier | GSM | |
| - Ssearch,RAT | -16 (-32 dB) | |
| - SHCS,RAT | Not Present | |
| - Slimit,SearchRAT | 0 (0dB) | |
| - Qqualmin | Reference to table 6.1.1 | |
| - Qrxlevmin | Reference to table 6.1.1 | |
| - Qhyst1s | 1 (2 dB) | |
| - Qhyst2s | Not Present | |
| - Treselections | 0 seconds | |
| - HCS Serving cell information | Not Present | |
| - Maximum allowed UL TX power | Reference to table 6.1.1 | |
| - Cell Access Restriction | | |
| - Cell barred | Not barred | |
| - Intra-frequency cell re-selection indicator | Not present | |
| - T _{barred} | Not present | |
| - Cell Reserved for operator use | Not reserved | |
| - Cell Reservation Extension | Not reserved | |
| - Access Class Barred List | | |
| - Access Class Barred0 | Not barred | |
| - Access Class Barred1 | Not barred | |
| - Access Class Barred2 | Not barred | |
| - Access Class Barred3 | Not barred | |
| - Access Class Barred4 | Not barred | |
| - Access Class Barred5 | Not barred | |
| - Access Class Barred6 | Not barred | |
| - Access Class Barred7 | Not barred | |
| - Access Class Barred8 | Not barred | |
| - Access Class Barred9 | Not barred | |
| - Access Class Barred10 | Not barred | |

| | | |
|--|-------------|-------|
| - Access Class Barred11 | Not barred | |
| - Access Class Barred12 | Not barred | |
| - Access Class Barred13 | Not barred | |
| - Access Class Barred14 | Not barred | |
| - Access Class Barred15 | Not barred | |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB | Not present | REL-6 |
| - Domain Specific Access Restriction For Shared Network | Not present | REL-6 |
| - Paging Permission with Access Control Parameters For PLMN Of MIB | Not present | REL-8 |
| - Paging Permission with Access Control For Shared Network | Not present | REL-8 |
| - CSG Identity | Not present | REL-8 |
| - CSG PSC Split Information | Not present | REL-8 |
| - IMS Emergency Support Indicator | Not present | REL-9 |

Contents of System Information Block type 3 (3.84 Mcps TDD, 1.28 Mcps TDD and 7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|---|-------------------------------------|---------|
| - SIB4 Indicator | TRUE | |
| - Cell identity | 0000 0000 0000 0000 0000 0000 0001B | |
| - Cell selection and re-selection info | | |
| - Mapping info | Not present | |
| - Cell selection and reselection quality measure | (no data) | |
| - CHOICE mode | TDD | |
| - Sintrasearch | 10 (21 dB) | |
| - Sintersearch | 10 (21 dB) | |
| - SsearchHCS | Not present | |
| - RAT List | This parameter is configurable | |
| - RAT identifier | GSM | |
| - Ssearch,RAT | -32 (-63 dB) | |
| - SHCS,RAT | Not present | |
| - Slimit,ShearchRAT | -1 (-1 dB) | |
| - Qrxlevmin | Reference to table 6.1.6a | |
| - Qhyst1s | 0 (0 dB) | |
| - Treselections | 0 seconds | |
| - HCS Serving cell information | Not present | |
| - Maximum allowed UL TX power | Reference to table 6.1.6a | |
| - Cell Access Restriction | | |
| - Cell barred | Not barred | |
| - Intra-frequency cell re-selection indicator | Not present | |
| - T _{barred} | Not present | |
| - Cell Reserved for operator use | Not reserved | |
| - Cell Reservation Extension | Not reserved | |
| - Access Class Barred List | | |
| - Access Class Barred0 | Not barred | |
| - Access Class Barred1 | Not barred | |
| - Access Class Barred2 | Not barred | |
| - Access Class Barred3 | Not barred | |
| - Access Class Barred4 | Not barred | |
| - Access Class Barred5 | Not barred | |
| - Access Class Barred6 | Not barred | |
| - Access Class Barred7 | Not barred | |
| - Access Class Barred8 | Not barred | |
| - Access Class Barred9 | Not barred | |
| - Access Class Barred10 | Not barred | |
| - Access Class Barred11 | Not barred | |
| - Access Class Barred12 | Not barred | |
| - Access Class Barred13 | Not barred | |
| - Access Class Barred14 | Not barred | |
| - Access Class Barred15 | Not barred | |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB | Not present | REL-6 |
| - Domain Specific Access Restriction For Shared Network | Not present | REL-6 |

| | | |
|--|-------------|-------|
| - Paging Permission with Access Control Parameters For PLMN Of MIB | Not present | REL-8 |
| - Paging Permission with Access Control For Shared Network | Not present | REL-8 |
| - CSG Identity | Not present | REL-8 |
| - CSG PSC Split Information | Not present | REL-8 |

Contents of System Information Block type 4 in connected mode (FDD)

| | |
|--|-------------------------------------|
| - Cell identity | 0000 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info | |
| - Mapping Info | Not present |
| - Cell selection and reselection quality measure | CPICH RSCP |
| - CHOICE mode | FDD |
| - Sintrasearch | 8 (16 dB) |
| - Sintersearch | 8 (16 dB) |
| - SsearchHCS | Not present |
| - RAT List | This parameter is configurable |
| - RAT identifier | GSM |
| - Ssearch,RAT | -16 (-32 dB) |
| - SHCS,RAT | Not Present |
| - $S_{limit,SearchRAT}$ | 0 (0dB) |
| - Qqualmin | Reference to table 6.1.1 |
| - Qrxlevmin | Reference to table 6.1.1 |
| - Qhyst1s | 1 (2 dB) |
| - Qhyst2s | Not Present |
| - Treselections | 0 seconds |
| - HCS Serving cell information | Not Present |
| - Maximum allowed UL TX power | Reference to table 6.1.1 |
| - Cell Access Restriction | |
| - Cell barred | Not barred |
| - Intra-frequency cell re-selection indicator | Not present |
| - T_{barred} | Not present |
| - Cell Reserved for operator use | Not reserved |
| - Cell Reservation Extension | Not reserved |
| - Access Class Barred List | Not present |

Contents of System Information Block type 4 in connected mode (similar to SIB type3) (3.84 Mcps TDD, 1.28 Mcps TDD and 7.68 Mcps TDD)

| | |
|--|-------------------------------------|
| - Cell identity | 0000 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info | |
| - Mapping info | Not Present |
| - Cell selection and reselection quality measure | CPICH RSCP |
| - CHOICE mode | TDD |
| - Sintrasearch | 10 (21 dB) |
| - Sintersearch | 10 (21 dB) |
| - SsearchHCS | Not present |
| - RAT List | This parameter is configurable |
| - RAT identifier | GSM |
| - Ssearch,RAT | -32 (-63 dB) |
| - SHCS,RAT | Not present |
| - $S_{limit,SearchRAT}$ | -1 (-1 dB) |
| - Qrxlevmin | Reference to table 6.1.6a |
| - Qhyst1s | 0 dB |
| - Treselections | 0 seconds |
| - HCS Serving cell information | Not present |
| - Maximum allowed UL TX power | Reference to table 6.1.6a |
| - Cell Access Restriction | |
| - Cell barred | Not barred |
| - Intra-frequency cell re-selection indicator | Not present |
| - T_{barred} | Not present |
| - Cell Reserved for operator use | Not reserved |
| - Cell Reservation Extension | Not reserved |
| - Access Class Barred List | Not present |

Contents of System Information Block type 5 (FDD)

| Information Element | Conditions | Value/remark | Version |
|---|------------|---------------------------|---------|
| - SIB6 indicator | | TRUE | REL-11 |
| - SIB22 indicator | | FALSE | |
| - PICH Power offset | | -5 dB | REL-11 |
| - CHOICE Mode | | FDD | |
| - AICH Power offset | | -5 dB | REL-11 |
| - Primary CCPCH info | | Not present | |
| - PRACH system information list | | | REL-11 |
| - PRACH system information | | | |
| - PRACH info | | | REL-11 |
| - CHOICE mode | | FDD | |
| - Available Signature | | '0000 0000 1111 1111'B | REL-11 |
| - Available SF | | 64 | |
| - Preamble scrambling code number | | 0 | REL-11 |
| - Puncturing Limit | | 1.00 | |
| - Available Sub Channel number | | '1111 1111 1111'B | REL-11 |
| - Transport channel Identity | | 15 | |
| - RACH TFS | | | REL-11 |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | REL-11 |
| - RLC size | | 168 | |
| - Number of TB and TTI List | | | REL-11 |
| - Number of Transport blocks | | 1 | |
| - CHOICE Mode | | FDD | REL-11 |
| - CHOICE Logical channel List | | Configured | |
| - RLC size | | 360 | REL-11 |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 1 | REL-11 |
| - CHOICE Mode | | FDD | |
| - CHOICE Logical channel List | | Configured | REL-11 |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 20 ms | REL-11 |
| - Type of channel coding | | Convolutional | |
| - Coding Rate | | 1/2 | REL-11 |
| - Rate matching attribute | | 150 | |
| - CRC size | | 16 | REL-11 |
| - Additional RACH TFS for CCCH | | | |
| - RLC size | | 240 | Rel6 |
| - Number of Transport blocks | | 1 | |
| - RACH TFCS | | | Rel6 |
| - CHOICE TFCI signalling | | Normal | |
| - TFCI Field 1 information | | | Rel6 |
| - CHOICE TFCS representation | | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | | Rel6 |
| - CHOICE CTFC Size | | 2 bit | |
| - CTFC information | | 0 | Rel6 |
| - Power offset information | | | |
| - CHOICE Gain Factors | | Computed Gain Factor | Rel6 |
| - Reference TFC ID | | 0 | |
| - CHOICE Mode | | FDD | Rel6 |
| - Power offset Pp-m | | 0 dB | |
| - CTFC information | | 1 | Rel6 |
| - Power offset information | | | |
| - CHOICE Gain Factors | | Signalled Gain Factor | Rel6 |
| - CHOICE mode | | FDD | |
| - Gain factor β_c | | 11 | Rel6 |
| - Gain factor β_d | | 15 | |
| - Reference TFC ID | | 0 | Rel6 |
| - CHOICE Mode | | FDD | |
| - Power offset Pp-m | | 0 dB | Rel6 |
| - Additional RACH TFCS for CCCH | | | |
| - Power offset information | | | Rel6 |
| - CHOICE Gain Factors | | Signalled Gain Factor | |
| - CHOICE mode | | FDD | Rel6 |
| - Gain factor β_c | | 11 | |

| | |
|-----------------------------------|---|
| - Gain factor β_d | 15 |
| - Reference TFC ID | 0 |
| - CHOICE Mode | FDD |
| - Power offset Pp-m | 0 dB |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#1) |
| - Available signature End Index | 7 (ASC#1) |
| - Assigned Sub-Channel Number | '1111'B |
| | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |
| | Not Present |
| - ASC Setting | |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#3) |
| - Available signature End Index | 7 (ASC#3) |
| - Assigned Sub-Channel Number | '1111'B |
| | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |
| | Not Present |
| - ASC Setting | |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#5) |
| - Available signature End Index | 7 (ASC#5) |
| - Assigned Sub-Channel Number | '1111'B |
| | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |
| | Not Present |
| - ASC Setting | |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-Channel Number | '1111'B |
| | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |
| - Persistence scaling factor | |
| - Persistence scaling factor | 0.9 (for ASC#2) |
| - Persistence scaling factor | 0.9 (for ASC#3) |
| - Persistence scaling factor | 0.9 (for ASC#4) |
| - Persistence scaling factor | 0.9 (for ASC#5) |
| - Persistence scaling factor | 0.9 (for ASC#6) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE mode | FDD |
| - Primary CPICH TX power | 31 |
| - Constant value | -10 |
| - PRACH power offset | |
| - Power Ramp Step | 3dB |
| - Preamble Retrans Max | 4 |
| - RACH transmission parameters | |
| - Mmax | 2 |
| - NB01min | 3 slot |
| - NB01max | 10 slot |
| - AICH info | |
| - Channelisation code | 3 |

| | | | |
|---|-------------|--|--|
| - STTD indicator | | FALSE | |
| - AICH transmission timing | | 0 | |
| - Secondary CCPCH system information | | | |
| - Secondary CCPCH info | | FDD | |
| - CHOICE mode | | Not Present | |
| - Secondary scrambling code | | FALSE | |
| - STTD indicator | | 64 | |
| - Spreading factor | | 1 | |
| - Code number | | FALSE | |
| - Pilot symbol existence | | TRUE (default value) | |
| - TFCI existence | | Flexible (default value) | |
| - Fixed or Flexible position | | Not Present | |
| - Timing offset | | Absence of this IE is equivalent to default value 0 | |
| - TFCS | | (This IE is repeated for TFC number for PCH and FACH.) | |
| - CHOICE TFCI signalling | | Normal | |
| - TFCI Field 1 information | | | |
| - CHOICE TFCS representation | | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | | |
| - CHOICE CTFC Size | M2 | 6 bit | |
| - CHOICE CTFC Size | A1,A2,A3,M1 | 4 bit | |
| - CTFC information | | 0 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 1 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 2 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 3 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 4 | |
| - Power offset information | | Not Present | |
| - CTFC information | A1,A2,A3,M1 | 5 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 6 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 8 | |
| - Power offset information | | Not Present | |
| - CTFC information | M2 | 12 | |
| - Power offset information | M2 | Not Present | |
| - CTFC information | M2 | 13 | |
| - Power offset information | M2 | Not Present | |
| - CTFC information | M2 | 14 | |
| - Power offset information | M2 | Not Present | |
| - CTFC information | M2 | 15 | |
| - Power offset information | M2 | Not Present | |
| - CTFC information | M2 | 16 | |
| - Power offset information | M2 | Not Present | |
| - CTFC information | M2 | 18 | |
| - Power offset information | M2 | Not Present | |
| - FACH/PCH information | | | |
| - TFS | | (PCH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 240 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Convolutional | |
| - Coding Rate | | 1/2 | |
| - Rate matching attribute | | 230 | |
| - CRC size | | 16 bit | |
| - Transport channel Identity | | 12 (for PCH) | |
| - CTCH indicator | | FALSE | |
| - TFS | | (FACH) | |

| | | | |
|--|----|--|-------|
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 168 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - Number of Transport blocks | | 2 | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Convolutional | |
| - Coding Rate | | 1/2 | |
| - Rate matching attribute | | 220 | |
| - CRC size | | 16 bit | |
| - Transport channel Identity | | 13 (for FACH) | |
| - CTCH indicator | | FALSE | |
| - TFS | | (FACH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 360 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Turbo | |
| - Rate matching attribute | | 130 | |
| - CRC size | | 16bit | |
| - Transport channel Identity | | 14 (for FACH) | |
| - TFS | | (FACH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 160 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 20 ms | |
| - Type of channel coding | | Convolutional | |
| - Coding Rate | | 1/3 | |
| - Rate matching attribute | | 225 | |
| - CRC size | | 16bit | |
| - Transport channel Identity | | 16 (for FACH) | |
| - CTCH indicator | | FALSE | |
| - PICH info | | | |
| - CHOICE mode | | FDD | |
| - Channelisation code | | 2 | |
| - Number of PI per frame | | 18 | |
| - STTD indicator | | FALSE | |
| - MCCH configuration information | M1 | Not Present | Rel-6 |
| - MCCH configuration information | M2 | | Rel-6 |
| - Access Info Period coefficient | | Reference to clause 11.1.1 "MCCH configuration parameters" | |
| - Repetition Period coefficient | | Reference to clause 11.1.1 "MCCH configuration parameters" | |
| - Modification period coefficient | | Reference to clause 11.1.1 "MCCH configuration parameters" | |
| - RLC info | | | |
| - DL UM RLC LI size | | 7 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | | |
| - Timer_OSD | | Not Present | |
| - Window size OSD | | 48 | |
| - TCTF presence | | Not Present | |
| - CBS DRX Level 1 information | | Not Present | |
| - Frequency Band Indicator | A1 | Not Present | |

| | | | |
|--|---|---|--------------|
| <ul style="list-style-type: none"> - Frequency Band Indicator 2 - Frequency Band Indicator 3 - Frequency Band Indicator - Frequency Band Indicator 2 - Frequency Band Indicator 3 - Frequency Band Indicator - Frequency Band Indicator 2 - Frequency Band Indicator 3 - Frequency Band Indicator - Frequency Band Indicator 2 - Frequency Band Indicator 3 - Secondary CCPCH system information | <p>A2</p> <p>A3</p> <p>A4</p> <p>M2</p> | <p>Not Present</p> <p>Not Present</p> <p>FDD Band under test</p> <p>Not Present</p> <p>Not Present</p> <p>Extension indicator</p> <p>FDD Band under test</p> <p>Not Present</p> <p>Extension indicator</p> <p>Extension indicator</p> <p>FDD Band under test</p> <p>Not Present</p> | <p>Rel-6</p> |
| <ul style="list-style-type: none"> - Secondary CCPCH system information | <p>M1</p> | | <p>Rel-6</p> |
| <ul style="list-style-type: none"> - Secondary CCPCH info MBMS - CHOICE Mode <ul style="list-style-type: none"> - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Timing Offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - FACH carrying MCCH - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TB and TTI List <ul style="list-style-type: none"> - Number of Transport blocks - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding <ul style="list-style-type: none"> - Coding Rate - Rate matching attribute - CRC size - MCCH configuration information <ul style="list-style-type: none"> - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info MBMS <ul style="list-style-type: none"> - DL UM RLC LI size - DL Duplication Avoidance and Reordering info <ul style="list-style-type: none"> - DL Out of sequence delivery info <ul style="list-style-type: none"> - Timer_OSD - Window size OSD | | <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases"</p> <p>Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases"</p> <p>Set to (Cell No, - 21) * 9 for MBMS Cell Nos 21-28. (actual value = IE value * 256 chips)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p> <p>Common transport channels</p> <p>160</p> <p>0</p> <p>1</p> <p>ALL</p> <p>20 ms</p> <p>Convolutional</p> <p>1/3</p> <p>160</p> <p>16bit</p> <p>Reference to clause 11.1.1 "MCCH configuration parameters"</p> <p>Reference to clause 11.1.1 "MCCH configuration parameters"</p> <p>Reference to clause 11.1.1 "MCCH configuration parameters"</p> <p>7</p> <p>Not Present</p> <p>Not Present</p> <p>48</p> | |

| | | | |
|---|--------|---|---|
| <ul style="list-style-type: none"> - TCTF presence - FACH carrying MTCH list - FACH carrying MSCH | | <ul style="list-style-type: none"> FALSE Not Present Not Present | |
| <ul style="list-style-type: none"> - CHOICE Mode - HS-DSCH common system information - CCCH mapping info <ul style="list-style-type: none"> - Logical channel identity - MAC-ehs queue identity - SRB1 mapping info - Common MAC-ehs reordering queue list <ul style="list-style-type: none"> - MAC-ehs queue to configure list - MAC-ehs queue Id - T1 - Treset - MAC-ehs window size - HS-SCCH system info <ul style="list-style-type: none"> - DL Scrambling Code - HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> - HS-SCCH Channelisation Code - HARQ system Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory Partitioning</i> - Common H-RNTI Information <ul style="list-style-type: none"> - Common H-RNTI - Common H-RNTI - Common H-RNTI - Common H-RNTI - BCCH specific H-RNTI - HS-DSCH paging system information <ul style="list-style-type: none"> - DL Scrambling Code - PICH for HSDPA supported paging list - HSDPA associated PICH info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - Channelisation code - Number of PI per frame - STTD Indicator - HS-PDSCH Channelisation Code - Number of PCCH transmissions - Transport Block Size List - Transport Block Size Index | B1, B3 | <ul style="list-style-type: none"> FDD 5 0 Not Present Configure 1 queue 0 50ms Not Present 16 Not Present Use 1 HS-SCCH 7 Reference to clause 6.10.2.4.5 Parameter Set Implicit Use 4 '1111 1010 1010 1010' '1111 1010 1010 1011' '1111 1010 1010 1100' '1111 1010 1010 1110' '1111 1010 1110 1010' Not Present Use value 1 FDD 13 18 False 1 3 1 1 | <ul style="list-style-type: none"> Rel-7 Rel-7 Rel-7 |
| Common EDCH System Info | B2, B3 | | Rel-8 |
| - UI Interference for common EDCH | | Not Present | |
| - common E-DCH MAC-d flow list | | MAC-d flows | |
| <ul style="list-style-type: none"> - mac-d flow identity - mac-d flow power offset - mac-d flow max number of retransmissions - mac-d flow multiplexing list - E-DCH-Mac-d flow retransmission timer - mac-d flow identity | | <ul style="list-style-type: none"> 0 2 7 Not Present Not Present 1 | |
| - mac-d flow power offset | | 0 | |
| - mac-d flow max number of retransmissions | | 7 | |
| - mac-d flow multiplexing list | | Not Present | |
| <ul style="list-style-type: none"> - E-DCH-Mac-d flow retransmission timer - mac-d flow identity - mac-d flow power offset - mac-d flow max number of retransmissions - mac-d flow multiplexing list - E-DCH-Mac-d flow retransmission timer | | <ul style="list-style-type: none"> Not Present 7 (used for CCCH) 0 7 Not Present Not Present | |
| -CHOICE Mode | | FDD | |
| - Prach preamble for enhanced uplink | | | |

| | | | |
|--|--|---|--|
| - Available Signatures | | '0000 0111 0000 0000'B | |
| - e-ai-Indication | | TRUE | |
| - Preamble scrambling code word number | | 0 | |
| - Available Sub Channel Number | | '1111 1111 1111'B | |
| - Prach partitioning | | Refer to Rel-99 (to Rel-6) default values in the same message above | |
| - Persistence scaling factor list | | Refer to Rel-99 (to Rel-6) default values in the same message above | |
| - AC-to-ASC-mapping | | Refer to Rel-99 (to Rel-6) default values in the same message above | |
| - Primary CPICH TX power | | 31 | |
| - Constant value | | -10 | |
| - Prach power offset | | Use Default | |
| - Rach transmission parameters | | Use Default | |
| - AICH info | | Use Default | |
| - Power offset Pp-e | | 0 | |
| - Initial serving grant value | | 4 | |
| - E-DCH TTI | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | |
| - E-AGCH Info | | | |
| - E-AGCH Channelisation Code | | 10 | |
| - HARQ Infofor E-DCH | | rvtable | |
| - UL DPCH power control info | | | |
| - Power Control Algorithm | | algorithm 1 | |
| - TPC step size | | 0 (1dB) | |
| - Δ_{ACK} | | 3 | |
| - Δ_{NACK} | | 3 | |
| - Ack Nack repetition factor | | 1 | |
| - E-DPCCH Info | | | |

| | | | |
|--|--|---|--|
| - E-DPCCH/DPCCH power offset | | 0 | |
| - Happy bit delay condition | | 100ms | |
| - E-TFC Boost Info | | Not Present | |
| - E-DPDCH Power Interpolation | | Not Present | |
| - E-DPDCH Info | | | |
| - E-TFCI table index | | 0 | |
| - E-DCH minimum set E-TFCI | | 9 | |
| - Reference-E-TFCIs | | 2 E-TFCIs | |
| - Reference E-TFCI | | 11 | |
| - Reference E-TFCI PO | | 4 | |
| - Reference E-TFCI | | 83 | |
| - Reference E-TFCI PO | | 16 | |
| - Min reduced-E-DPDCH gain factor | | Not Present | |
| - Max channelization codes | | 2sf4 (for E-DCH Category 2 and 4) 2sf2and2sf4 | |
| - PL _{non-max} | | 0.84 | |
| - Scheduling Info Configuration | | | |
| - Periodicity for Sched Info – No Grant | | Use Default | |
| - Periodicity for Sched Info – Grant | | Use Default | |
| - Power Offset for Sched Info | | 0 | |
| - 3-Index-Step Threshold | | Use Default | |
| - 2-Index-Step Threshold | | Use Default | |
| - F-DPCH TPC command error rate target | | 4 (corresponds to 0.04 in target F-DPCH TPC command error rate) | |
| - Additional E-DCH transmission back off | | 8 TTI | |
| - Maximum E-DCH resource allocation for CCCH | | 16 TTI | |
| -Maximum period for collision resolution phase | | 15 TTI | |
| - E-DCH transmission continuation back off | | 24 TTI | |
| - ACK/NACK support on HS-DPCCH | | TRUE | |
| - Measurement Feedback Info | | | |
| -CHOICE mode | | FDD | |
| - Measurement Power Offset | | 6dB | |
| - CQI Feedback cycle, k | | 4ms | |
| - CQI repetition factor | | 1 | |
| - Δ_{CQI} | | 5 (corresponds to 0dB in relative power offset) | |
| - Common E-DCH Resource Configuration Information List | | 3 E-DCH resources | |
| - S-offset | | 0 | |
| - F-DPCH Code number | | 12 | |
| - E-RGCH Information | | | |
| - Signature Sequence | | 0 | |
| - E-HICH Info | | | |
| - Channelisation Code | | 4 | |
| - Signature Sequence | | 1 | |
| - Uplink DPCH Code Info | | | |
| - ul-DPCCHscramblingCodeType | | Long | |
| - ul-DPCCHscramblingCode | | 10 | |
| - Soffset | | 1 | |
| - F-DPCH Code number | | 12 | |
| - E-RGCH Information | | | |
| - Signature Sequence | | 2 | |
| - E-HICH Info | | | |
| - Channelisation Code | | 4 | |
| - SignatureSequence | | 3 | |
| - Uplink DPCH Code Info | | | |
| - ul-DPCCHscramblingCodeType | | Long | |
| - ul-DPCCHscramblingCode | | 1 | |
| - Soffset | | 2 | |
| - F-DPCH Code number | | 12 | |
| - E-RGCH Information | | | |
| - Signature Sequence | | 4 | |
| - E-HICH Info | | | |
| - Channelisation Code | | 4 | |

| | | |
|------------------------------|------|--|
| - SignatureSequence | 5 | |
| - Uplink DPCH Code Info | Long | |
| - ul-DPCCHscramblingCodeType | 2 | |
| - ul-DPCCHscramblingCode | | |

| Condition | Explanation |
|-----------|---|
| A1 | Band I, Band II, Band III |
| A2 | Band V, Band VI, Band VII |
| A3 | Band VIII & bands from Band X to Band XXII |
| A4 | Bands beyond Band XXII |
| B1 | Only for cells which configure HS-DSCH reception in CELL_FACH |
| B2 | Only for cells which configure common E-DCH reception in CELL_FACH |
| B3 | Only for cells which configure common E-DCH and HS-DSCH reception in CELL_FACH |
| M1 | Only for MBMS cells with MCCH mapped on an S-CCPCH used for MBMS purposes only |
| M2 | Only for MBMS cells with MCCH mapped on an S-CCPCH also used for non- MBMS purposes |

NOTE: for non-MBMS cell MBMS specific IEs should be set to not present.

Contents of System Information Block type 5 (3.84 Mcps TDD)

| | |
|--|---------------------------------------|
| - SIB6 indicator | TRUE |
| - PICH Power offset | -5 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Alpha | (1/8) |
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | -10 |
| - UE positioning related parameters | Not Present /REL-4/ |
| - Primary CCPCH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - CHOICE SyncCase | Sync Case 2 |
| - Timeslot | 0 |
| - Cell parameters ID | Not Present |
| - SCTD indicator | FALSE |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List | |
| - CHOICE SF | SF8 |
| - Channelisation Code List | |
| - Channelisation Code | 8/1 |
| - Channelisation Code | 8/2 |
| - Channelisation Code | 8/3 |
| - Channelisation Code | 8/4 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present /REL-4/ |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - Transmission Time Interval | Not Present |
| - CHOICE Logical channel List | Configured |

| | |
|--|---|
| <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels | <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not present</p> <p>(ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#2) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#3) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#4) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#5)</p> |
| <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class <ul style="list-style-type: none"> - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping <ul style="list-style-type: none"> - AC-to-ASC mapping table <ul style="list-style-type: none"> - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE <i>mode</i> | <p>TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>(ASC#6) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null</p> <p>0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6)</p> <p>6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data)</p> |

| | |
|--|--|
| <ul style="list-style-type: none"> - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE <i>mode</i> - Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - CHOICE <i>TDD option</i> - no data - Code List - Channelisation Code - TFCS -CHOICE <i>TFCI signalling</i> - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | <p>TDD 0</p> <p>Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not Present (MD "1") Not present (empty)</p> <p>3.84 Mcps TDD 1 Reference clause 6.10 "Parameter Set"</p> <p>3.84 Mcps TDD Type 1 Default midamble 4 Not Present 3.84 Mcps TDD</p> <p>(This IE is repeated for Code number for PCH and FACH) (This IE is repeated for TFC number for PCH and FACH)</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 "Parameter Set" Not Present</p> <p>(PCH) Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> |
| <ul style="list-style-type: none"> - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p> <p>TDD Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p> <p>12 (for PCH) FALSE (FACH) Common transport channels</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p> <p>TDD Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p> |

| | |
|---|---------------------------------------|
| - Transport channel Identity | 13 (for FACH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity | 14 (for FACH) |
| - CTCH indicator | FALSE |
| - PICH info | |
| - CHOICE <i>mode</i> | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Midamble shift and burst type | |
| - CHOICE Burst Type | Type 1 |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration burst type 1 and 3 | 8 |
| - Midamble Shift | Not Present |
| - Channelisation code | 16/16 |
| - Repetition period/length | 64/2 |
| - Offset | 0 |
| - Paging indicator length | 4 |
| - N _{GAP} | 4 |
| - N _{PCH} | 2 |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 5 (1.28 Mcps TDD)

| Information Element | Conditions | Value/remark | Version |
|---------------------------------|------------|--------------------------------------|---------|
| - SIB6 indicator | | TRUE | |
| - PICH Power offset | | -5 dB | |
| - CHOICE Mode | | TDD | |
| - PUSCH system information | | Not Present | |
| - PDSCH system information | | Not Present | |
| - TDD open loop power control | | | |
| - Primary CCPCH Tx Power | | 30 dbm | |
| - CHOICE TDD option | | 1.28 Mcps TDD /REL-4/ | |
| - no data | | | |
| - Primary CCPCH info | | | |
| - CHOICE <i>mode</i> | | TDD | |
| - CHOICE TDD option | | 1.28 Mcps TDD /REL-4/ | |
| - TSTD indicator | | FALSE | |
| - Cell parameters ID | | Set to the parameters id of the cell | |
| - SCTD indicator | | FALSE | |
| - PRACH system information list | | | |
| - PRACH system information | | | |
| - PRACH info | | | |
| - CHOICE mode | | TDD | |
| - CHOICE TDD option | | 1.28 Mcps TDD /REL-4/ | |
| - SYNC_UL info | | | |
| - SYNC_UL codes bitmap | | "11111111" | |
| - SYNC_UL codes bitmap | B1 | "11110000" | |
| - PRX _{UpPCHdes} | | 15(-105dBm) | |
| - Power Ramping Step | | 3 dB | |
| - Max SYNC_UL Transmissions | | 8 | |
| - Mmax | | 2 | |
| - PRACH definition | | | |
| - Timeslot number | | | |

| | | |
|---|--|--|
| <ul style="list-style-type: none"> - CHOICE TDD option - Timeslot number - PRACH Channelisation Code - Channelisation Code List - Channelisation Code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - Midamble Shift - WT - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings | <p>1.28 Mcps TDD /REL-4/ 1</p> <p>(8/8)</p> <p>1.28 Mcps TDD /REL-4/ Default midamble 8 (k=16) Not present</p> <p>0 (16/15)</p> <p>1.28 Mcps TDD /REL-4/ Default midamble 4 (k=8) Not present 4</p> <p>15</p> <p>Common transport channels</p> <p>170</p> <p>1 TDD Configured</p> <p>10 ms Convolutional 1/2 110t" 16</p> <p>Not present</p> <p>(ASC#0) TDD 1.28 Mcps TDD "11111111" Size1 Null</p> <p>(ASC#1) TDD 1.28 Mcps TDD "11111111" Size1 Null</p> <p>(ASC#2) TDD 1.28 Mcps TDD "11111111" Size1 Null</p> <p>(ASC#3) TDD 1.28 Mcps TDD "11111111" Size1 Null</p> <p>(ASC#4) TDD 1.28 Mcps TDD "11111111" Size1 Null</p> <p>(ASC#5)</p> | |
|---|--|--|

| | | |
|--------------------------------------|----|---------------------------------------|
| - CHOICE mode | | TDD |
| - CHOICE TDD option | | 1.28 Mcps TDD |
| - Available SYNC_UL codes indices | | "11111111" |
| - CHOICE subchannel size | | Size1 |
| - Available Subchannels | | Null |
| - ASC Settings | | (ASC#6) |
| - CHOICE mode | | TDD |
| - CHOICE TDD option | | 1.28 Mcps TDD |
| - Available SYNC_UL codes indices | | "11111111" |
| - CHOICE subchannel size | | Size1 |
| - Available Subchannels | | Null |
| - Access Service Class | | |
| - Persistence scaling factor | | 0.9 (for ASC#2) |
| - Persistence scaling factor | | 0.9 (for ASC#3) |
| - Persistence scaling factor | | 0.9 (for ASC#4) |
| - Persistence scaling factor | | 0.9 (for ASC#5) |
| - Persistence scaling factor | | 0.9 (for ASC#6) |
| - AC-to-ASC mapping | | |
| - AC-to-ASC mapping table | | |
| - AC-to-ASC mapping | | 6 (AC0-9) |
| - AC-to-ASC mapping | | 5 (AC10) |
| - AC-to-ASC mapping | | 4 (AC11) |
| - AC-to-ASC mapping | | 3 (AC12) |
| - AC-to-ASC mapping | | 2 (AC13) |
| - AC-to-ASC mapping | | 1 (AC14) |
| - AC-to-ASC mapping | | 0 (AC15) |
| - CHOICE mode | | TDD (no data) |
| - Secondary CCPCH system information | | |
| - Secondary CCPCH info | | |
| - CHOICE mode | | TDD |
| - Offset | | 0 |
| - Common timeslot info | | |
| - 2 nd interleaving mode | | Frame |
| - TFCI coding | | 16 bits |
| - Puncturing limit | | Reference clause 6.11 "Parameter Set" |
| - Repetition period | | 1 |
| - Repetition length | | 0 |
| - Individual timeslot info | | |
| - CHOICE TDD option | | 1.28 Mcps TDD |
| - Timeslot number | | 0 |
| - TFCI existence | | Reference clause 6.11 "Parameter Set" |
| - Midamble Shift and burst type | | |
| - CHOICE TDD option | | 1.28 Mcps TDD |
| - Midamble Allocation Mode | | Default midamble |
| - Midamble configuration | | 4 (k=8) |
| - Midamble Shift | | Not Present |
| - CHOICE TDD option | | 1.28 Mcps TDD |
| - Modulation | | QPSK |
| - SS-TPC Symbols | | 0 |
| - Code List | | |
| - Channelisation Code | | (16/7) |
| - Channelisation Code | | (16/8) |
| - Channelisation Code | B2 | (16/9) |
| - Channelisation Code | B2 | (16/10) |
| - Channelisation Code | B2 | (16/11) |
| - TFCS | | |
| - CHOICE TFCI signalling | | Normal |
| - TFCI Field 1 information | | |
| - CHOICE TFCS representation | | Complete |
| - TFCS addition information | | |
| - CHOICE CTFC Size | | 4 bit |
| - CHOICE CTFC Size | B2 | 6 bit |
| - CTFC information | | 0 |
| - Power offset information | | Not Present |
| - CTFC information | | 1 |
| - Power offset information | | Not Present |

| | | | |
|--|----|---------------------------|--|
| - CTFC information | | 2 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 3 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 4 | |
| - Power offset information | | Not Present | |
| - CTFC information | | 5 | |
| - Power offset information | | Not Present | |
| - CTFC information | B2 | 6 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 7 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 8 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 9 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 10 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 11 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 12 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 13 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 14 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 15 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 16 | |
| - Power offset information | B2 | Not Present | |
| - CTFC information | B2 | 17 | |
| - Power offset information | B2 | Not Present | |
| - FACH/PCH information | | | |
| - Transport channel Identity | | 12 (for PCH) | |
| - TFS | | (PCH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 240 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Mode | | TDD | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 20 ms | |
| - Type of channel coding | | convolutional | |
| - Coding Rate | | 1/2 | |
| - Rate matching attribute | | 230 | |
| - CRC size | | 16 bit | |
| - Transport channel Identity | | 13 (for FACH) | |
| - TFS | | (FACH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 171 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - Number of Transport blocks | | 2 | |
| - CHOICE Mode | | TDD | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 20 ms | |
| - Type of channel coding | | convolutional | |
| - Coding Rate | | 1/2 | |
| - Rate matching attribute | | 230 | |
| - CRC size | | 16 bit | |
| - CTCH indicator | | FALSE | |

| | | | |
|--|----|---|--|
| <ul style="list-style-type: none"> - Transport channel Identity - TFS - CHOICE Transport channel type | B2 | <ul style="list-style-type: none"> 14 (for FACH) (FACH) Common transport channels | |
| <ul style="list-style-type: none"> - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - CTCH indicator - PICH info - CHOICE mode - CHOICE TDD option - Timeslot number - Midamble shift and burst type - Midamble Allocation Mode - Midamble configuration - Midamble Shift - Channelisation code list - Channelisation code - Channelisation code - Repetition period/length - Offset - Paging indicator length - N_{GAP} - N_{PCH} | | <ul style="list-style-type: none"> 363 0 1 2 TDD ALL 20 ms Turbo 1/3 130 16 bit FALSE TDD 1.28 Mcps TDD 0 Default midamble 4 (k=8) Not Present (16/5) (16/6) 64/2 0 4 4 2 Not Present | |
| <ul style="list-style-type: none"> - CBS DRX Level 1 information - CHOICE Mode - HS-DSCH common system information - CCCH mapping info - Logical channel identity - MAC-ehs queue identity - SRB1 mapping info - Common MAC-ehs reordering queue list - MAC-ehs queue to configure list - MAC-ehs queue Id - T1 - Treset - MAC-ehs window size - MAC-ehs queue Id - T1 - Treset - MAC-ehs window size - HS-SCCH system info - HS-SCCH Set Configuration - Timeslot number - First Channelisation code - Second Channelisation code - Midamble Allocation mode - Midamble configuration - HS-SICH configuration - Timeslot number - Channelisation code - Midamble Allocation mode - Midamble configuration - PRX_{HS-SICH} - Ack-Nack Power Offset - TPC step size - BLER target - Power Control GAP | B1 | <ul style="list-style-type: none"> TDD 5 0 Not Present Configure 2 queues 0 50ms Not Present 16 1 50ms Not Present 16 1 0 16/11 16/12 Default midamble 16 1 16/13 Default midamble 16 -120 0 1 -2.0 Not Present | <ul style="list-style-type: none"> Rel-8 Rel-8 |

| | | | |
|---|----|--------------------------------|-------|
| - Pathloss compensation switch | | Not Present | |
| - HARQ system Info | | Reference to clause 6.11.5.4.6 | |
| - Number of Processes | | Parameter Set Implicit | |
| - CHOICE <i>Memory Partitioning</i> | | | |
| - HS-PDSCH Midamble Configuration | | Default midamble | |
| - Midamble Allocation Mode | | 16 | |
| - Midamble Configuration | | Use 4 | |
| - Common H-RNTI Information | | '1111 1010 1010 1010' | |
| - Common H-RNTI | | '1111 1010 1010 1011' | |
| - Common H-RNTI | | '1111 1010 1010 1100' | |
| - Common H-RNTI | | '1111 1010 1010 1110' | |
| - BCCH specific H-RNTI | | '1111 1010 1110 1010' | |
| - HS-DSCH paging system information | | | Rel-8 |
| - PICH for HS-DSCH list | | Use value 1 | |
| - CHOICE Configuration Mode | | Explicit | |
| - HSDPA associated PICH info | | TDD | |
| - Timeslot number | | 0 | |
| - Midamble shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | |
| - Midamble Allocation Mode | | Default midamble | |
| - Midamble Configuration | | 16 | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | |
| - Codes list | | 1 | |
| - Channelisation code | | 16/5 | |
| - Repetition period/length | | Not Present | |
| - Offset | | 0 | |
| - Paging indicator length | | Not Present | |
| - N _{GAP} | | Not Present | |
| - N _{PCH} | | Not Present | |
| - DTCH/DCCH Reception window size | | 4 | |
| - PCCH related information | | 3 | |
| - Paging associated HS-PDSCH info | | 1 | |
| - HS-PDSCH Midamble Configuration | | 1 | |
| - Midamble Allocation Mode | | Default midamble | |
| - Midamble Configuration | | 16 | |
| - Timeslot Resource Related Information | | '000100' | |
| - Code Resource Information | | | |
| - Start code | | 16/16 | |
| - Stop code | | 16/16 | |
| - Paging Sub-Channel Size | | 1 | |
| - Transport Block Size List | | 1 | |
| - Transport Block Size Index | | 1 | |
| CommonEDCHSystemInfo | B1 | | Rel-8 |
| -ul-InterferenceForCommonEDCH | | Not Present | |
| -common-E-DCH-MAC-d-FlowList | | | |
| - mac-d-FlowIdentity | | 1 | |
| - mac-d-FlowPowerOffset | | 0 | |
| - mac-d-FlowMaxRetrans | | 7 | |
| - mac-d-FlowMultiplexingList | | Not Present | |
| - e-dch-mac-d-flow-retransmission-timer | | 10ms | |
| -CHOICE Mode | | TDD | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | |
| - prach-PreambleForEnhancedUplink | | | |
| - E-RUCCH Info | | | |
| - T-RUCCH | | ms200 | |
| - N-RUCCH | | 3 | |
| - T-WAIT | | ms320 | |
| - T-SI | | ms20 | |
| - Extended Estimation Window | | 3 | |
| - E-RUCCH Access Service class | | Not Present | |
| - E-RUCCH persistence scaling factor | | Not Present | |
| list | | | |
| - SYNC_UL info | | | |
| - SYNC_UL codes bitmap | | "00001111" | |
| - PRACH Information | | Not Present | |

| | | | |
|---|--|-----------------------|--|
| - E-PUCH info | | | |
| - E-TFCS information | | | |
| - Reference Beta Information QPSK list | | | |
| - Reference Code Rate | | 2 | |
| - Reference Beta | | -10 | |
| - Reference Code Rate | | 8 | |
| - Reference Beta | | -3 | |
| - Reference Beta Information 16QAM list | | | |
| - Reference Code Rate | | 2 | |
| - Reference Beta | | -5 | |
| - Reference Code Rate | | 8 | |
| - Reference Beta | | 2 | |
| - SNPL Reporting Type | | type1 | |
| - PRXdes_base | | -112 | |
| - Beacon PL Est. | | Not Present | |
| - TPC step size | | 1 | |
| - Pebase power control gap | | Not Present | |
| - Uplink synchronisation parameters | | Not Present | |
| - E-PUCH TS configuration list | | | |
| - TS number | | 1 | |
| - Midamble shift and burst type | | | |
| - Midamble Allocation Mode | | Default midamble | |
| - Midamble configuration | | 16 | |
| - Minimum allowed code rate | | 0 | |
| - Maximum allowed code rate | | 63 | |
| - Maximum number of retransmissions for Scheduling Info | | 3 | |
| - Retransmission Timer for Scheduling Info | | 40 | |
| - Power Offset for Scheduling Info | | 0 | |
| - E-HICH info | | | |
| - N_{E-HICH} | | 6 | |
| - E-HICH set configuration | | | |
| - EI | | 0 | |
| - Timeslot number | | 6 | |
| - Channelisation code | | 16/6 | |
| - Midamble Allocation Mode | | Default midamble | |
| - Midamble configuration | | 16 | |
| - E-AGCH Info | | | |
| - RDI Indicator | | TRUE | |
| - TPC step size | | 1 | |
| - E-AGCH set configuration | | | |
| - Timeslot number | | 6 | |
| - First Channelisation code | | 16/3 | |
| - Second Channelisation code | | 16/4 | |
| - Midamble Allocation Mode | | Default midamble | |
| - Midamble configuration | | 16 | |
| - E-AGCH BLER target | | -0.05 | |
| - HARQ info for E-DCH | | | |
| - CHOICE <i>mode</i> | | TDD | |
| - HARQ RV Configuration | | rvtable | |
| - CCCH transmission info | | | |
| - Common E-RNTI info | | | |
| - Common E-RNTI information | | 4 | |
| - Starting E-RNTI | | '1111 1010 1010 1010' | |
| - Number of group | | 1 | |
| - Number of E-RNTI per group | | 1 | |
| - Starting E-RNTI | | '1111 1010 1010 1011' | |
| - Number of group | | 1 | |
| - Number of E-RNTI per group | | 2 | |
| - Starting E-RNTI | | '1111 1010 1010 1100' | |
| - Number of group | | 1 | |

| | | |
|--|-----------------------|--|
| - Number of E-RNTI per group | 3 | |
| - Starting E-RNTI | '1111 1010 1010 1110' | |
| - Number of group | 1 | |
| - Number of E-RNTI per group | 4 | |
| - HARQ maximum number of retransmissions | 2 | |
| - HARQ retransmission timer | 160 | |
| - HARQ power offset | 0 | |

| | |
|----|--|
| B1 | Only for cells which configure HS-DSCH and common E-DCH reception in CELL_FACH |
| B2 | For TDD signalling configuration |

Contents of System Information Block type 5 (7.68 Mcps TDD)

| | |
|--|---------------------------------------|
| - SIB6 indicator | TRUE |
| - PICH Power offset | -5 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PUSCH system information VHCR | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - Alpha | (1/8) |
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | -10 |
| - UE positioning related parameters | Not Present |
| - Primary CCPCH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - CHOICE SyncCase | Sync Case 2 |
| - Timeslot | 0 |
| - Cell parameters ID | Not Present |
| - SCTD indicator | FALSE |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List VHCR | |
| - CHOICE SF | SF16 |
| - Channelisation Code List | |
| - Channelisation Code | 16/1 |
| - Channelisation Code | 16/2 |
| - Channelisation Code | 16/3 |
| - Channelisation Code | 16/4 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present /REL-4/ |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - Transmission Time Interval | Not Present |
| - CHOICE Logical channel List | Configured |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |

| | |
|--|--|
| <ul style="list-style-type: none"> - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings | <p>Not present</p> <p>(ASC#0)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#1)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#2)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#3)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#4)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#5)</p> |
| <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - ASC Settings <ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size <ul style="list-style-type: none"> - Available Subchannels - Persistence scaling factors - Access Service Class <ul style="list-style-type: none"> - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping <ul style="list-style-type: none"> - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE <i>mode</i> - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info <ul style="list-style-type: none"> - CHOICE <i>mode</i> - Offset - Common timeslot info | <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#6)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>0.9 (for ASC#2)</p> <p>0.9 (for ASC#3)</p> <p>0.9 (for ASC#4)</p> <p>0.9 (for ASC#5)</p> <p>0.9 (for ASC#6)</p> <p>6 (AC0-9)</p> <p>5 (AC10)</p> <p>4 (AC11)</p> <p>3 (AC12)</p> <p>2 (AC13)</p> <p>1 (AC14)</p> <p>0 (AC15)</p> <p>TDD (no data)</p> <p>7.68 Mcps TDD</p> <p>0</p> |

| | |
|--|--|
| <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble Shift and burst type <ul style="list-style-type: none"> - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - CHOICE Burst Type <ul style="list-style-type: none"> - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - no data - Code List - Channelisation Code - TFCS <ul style="list-style-type: none"> - CHOICE <i>TFCS signalling</i> <ul style="list-style-type: none"> - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information - CHOICE CTFC Size <ul style="list-style-type: none"> - CTFC information - Power offset information - FACH/PCH information <ul style="list-style-type: none"> - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | <p>Frame</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present (MD "1")</p> <p>Not present (empty)</p> <p>7.68 Mcps TDD</p> <p>1</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD</p> <p>Type 1</p> <p>Default midamble</p> <p>4</p> <p>Not Present</p> <p>7.68 Mcps TDD</p> <p>(This IE is repeated for Code number for PCH and FACH)</p> <p>(This IE is repeated for TFC number for PCH and FACH)</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present</p> <p>(PCH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> |
| <ul style="list-style-type: none"> - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode <ul style="list-style-type: none"> - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode <ul style="list-style-type: none"> - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size | <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>12 (for PCH)</p> <p>FALSE</p> <p>(FACH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>13 (for FACH)</p> <p>FALSE</p> <p>(FACH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> |

| | |
|---|---------------------------------------|
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity | 14 (for FACH) |
| - CTCH indicator | FALSE |
| - PICH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - Timeslot number | 0 |
| - Midamble shift and burst type | |
| - CHOICE Burst Type | Type 1 |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration burst type 1 and 3 | 8 |
| - Midamble Shift | Not Present |
| - Channelisation code | 32/32 |
| - Repetition period/length | 64/2 |
| - Offset | 0 |
| - Paging indicator length | 4 |
| - N _{GAP} | 4 |
| - N _{PCH} | 2 |
| - MCCH configuration information | Not Present |
| - CBS DRX Level 1 information | Not Present |
| - Frequency band indicator | Not Present |
| - Frequency band indicator 2 | Not Present |
| - HSDPA cell Indicator | Not Present |
| - E-DCH cell Indicator | Not Present |
| - Secondary CCPCH system information MBMS | Not Present |

Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

| | | |
|------------------------------|----|---------------------|
| - Frequency Band Indicator | A1 | FDD Band under test |
| - Frequency Band Indicator 2 | | Not Present |
| - Frequency Band Indicator 3 | | Not Present |
| - Frequency Band Indicator | A2 | Extension indicator |
| - Frequency Band Indicator 2 | | FDD Band under test |
| - Frequency Band Indicator 3 | | Not Present |

| Condition | Explanation |
|-----------|-----------------|
| A1 | Band IV |
| A2 | Band IX, Band X |

Contents of System Information Block type 6 in connected mode (FDD)

| | |
|---------------------------------|-------------|
| - PICH power offset | -5 dB |
| - CHOICE Mode | FDD |
| - AICH power offset | -5 dB |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | Not present |
| - Secondary CCPCH system info | Not Present |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 6 in connected mode (similar to SIB type 5) (3.84 Mcps TDD)

| | |
|---|--|
| <ul style="list-style-type: none"> - PICH Power offset - CHOICE Mode - PUSCH system information - PDSCH system information - TDD open loop power control - Primary CCPCH Tx Power - CHOICE TDD option - Alpha - PRACH Constant Value - DPCH Constant Value - PUSCH Constant Value - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - PRACH system information list - PRACH system information - PRACH info - CHOICE mode - CHOICE TDD option - Timeslot number - PRACH Channelisation Code List - CHOICE SF - Channelisation Code List - Channelisation Code - Channelisation Code - Channelisation Code - Channelisation Code - PRACH Midamble - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information | <ul style="list-style-type: none"> -5 dB TDD Not Present Not Present 30 dbm 3.84 Mcps TDD /REL-4/ (1/8) -10 -10 -10 TDD 3.84 Mcps TDD /REL-4/ Sync Case 2 0 Not Present FALSE TDD 3.84 Mcps TDD /REL-4/ 14 SF8 8/1 8/2 8/3 8/4 Direct 15 Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present Configured |
| <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size | <ul style="list-style-type: none"> Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not present (ASC#0) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#2) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 |

| | |
|--|--|
| <ul style="list-style-type: none"> - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping - CHOICE <i>mode</i> - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE <i>mode</i> - Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period | <ul style="list-style-type: none"> null (ASC#3) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#4) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#5) TDD Not Present (Default all) Size1 null (ASC#6) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null 0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) Not Present TDD (no data) TDD 0 Not Present (MD "Frame") Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not Present (MD "1") |
| <ul style="list-style-type: none"> - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - Code List - Channelisation Code - TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information | <ul style="list-style-type: none"> Not present 3.84 Mcps TDD /REL-4/ 1 Reference clause 6.10 "Parameter Set" Type 1 Default midamble 4 Not Present Reference clause 6.10 "Parameter Set" (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 "Parameter Set" Not Present (PCH) Common transport channels |

| | |
|---|---------------------------------------|
| - RLC Size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - Transmission Time Interval | Reference clause 6.10 "Parameter Set" |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity | 12 (for PCH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - Transmission Time Interval | Reference clause 6.10 "Parameter Set" |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity | 13 (for FACH) |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | (This IE is repeated for TFI number.) |
| - RLC Size | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding | Reference clause 6.10 "Parameter Set" |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity | 14 (for FACH) |
| - CTCH indicator | FALSE |
| - CTCH indicator | FALSE |
| - PICH info | |
| - CHOICE <i>mode</i> | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Midamble shift and burst type | |
| - CHOICE Burst Type | Type 1 |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration burst type 1 and 3 | 8 |
| - Midamble Shift | Not Present |
| - Channelisation code | 16/16 |
| - Repetition period/length | 64/2 |
| - Offset | 0 |
| - Paging indicator length | 4 |
| - N_{GAP} | 4 |
| - N_{PCH} | 2 |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 6 In connected mode (1.28 Mcps TDD)

| | |
|---------------------|-------|
| - PICH Power offset | -5 dB |
|---------------------|-------|

| | |
|--------------------------------------|-----------------------|
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dBm |
| - CHOICE TDD option | 1.28 Mcps TDD /REL-4/ |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 6 in connected mode (7.68 Mcps TDD)

| | |
|--------------------------------------|-------------|
| - PICH Power offset | -5 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | Not present |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 7 (FDD)

| | |
|---|--------------------------------------|
| CHOICE Mode | FDD |
| - UL interference | -100 dBm |
| - PRACHs listed in system information block type5 | |
| - Dynamic persistence level | 2 |
| - PRACHs listed in system information block type6 | Not Present |
| - Expiration Time Factor | Not Present - use default value of 1 |

Contents of System Information Block type 7 (TDD)

| | |
|---|--------------------------------------|
| CHOICE Mode | TDD |
| PRACHs listed in system information block type5 | |
| - Dynamic persistence level | 2 |
| PRACHs listed in system information block type6 | |
| - Dynamic persistence level | 2 |
| Expiration Time Factor | Not Present - use default value of 1 |

Contents of System Information Block type 8, 9 (only for FDD R99 and Rel-4)

This information is used for static CPCH in the cell, so this is not present.

Contents of System Information Block type 10 (only for FDD R99 and Rel-4)

This information is used for DRAC, so this is not present.

Contents of System Information Block type 11 (FDD)

This is the default message content of SIB 11 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 11 (FDD) for cell 2 to 8.

See clause 6.1.4.3 for the difference in message contents of System information Block type 11(FDD) for cell 21 to 28

| | | |
|--|---|--|
| <ul style="list-style-type: none"> - SIB12 indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measure - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE intra-frequency cell removal - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary scrambling code - Primary CPICH TX power - TX Diversity indicator - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary scrambling code - Primary CPICH TX power - TX Diversity indicator - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>A1, A2, A3</p> <p>A1, A2, A3</p> <p>A1, A3</p> <p>A1, A3</p> <p>A3</p> | <p>TRUE</p> <p>Not Present</p> <p>Not used</p> <p>CPICH RSCP</p> <p>Not Present</p> <p>Absence of this IE is equivalent to default value 1</p> <p>Not present</p> <p>(This IE shall be ignored by the UE for SIB11)</p> <p>1</p> <p>Not present</p> <p>Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present</p> <p>FALSE</p> <p>FDD</p> <p>Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>Not Present</p> <p>FALSE</p> <p>Not Present</p> <p>(The IE shall be absent as this is the serving cell)</p> <p>2</p> <p>Not present</p> <p>Absence of this IE is equivalent to default value 0dB</p> <p>Not present</p> <p>TRUE</p> <p>FDD</p> <p>Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4</p> <p>Not Present</p> <p>FALSE</p> <p>Not present</p> <p>For neighbouring cell, if HCS is not used and all the parameters in cell selection and re-selection info are Default value, this IE is absent.</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>Note that this cell can also be configured as an inter-frequency cell on f3.</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> <p>Note that this cell can also be configured as an inter-frequency cell on f3.</p> <p>11</p> |
|--|---|--|

| | | |
|---|----------------------------------|--|
| <ul style="list-style-type: none"> - Cell info | | <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient - CHOICE mode - Measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Intra-frequency reporting quantity - Reporting quantities for active set cells - Cell synchronization information reporting indicator - Cell identity reporting indicator - CHOICE mode - CPICH Ec/N0 reporting indicator - CPICH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for monitored set cells - Cell synchronization information reporting indicator - Cell identity reporting indicator - CHOICE mode - CPICH Ec/N0 reporting indicator - CPICH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for detected set cells - Measurement reporting mode - Measurement Report Transfer Mode - Periodic Reporting/Event Trigger Reporting Mode - CHOICE report criteria - Intra-frequency measurement reporting criteria - Parameters required for each event - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold | <p>A1, A2, A3 A1, A2, A3</p> | <p>Not Present</p> <p>Not present Absence of this IE is equivalent to the default value 0</p> <p>FDD CPICH RSCP Not Present</p> <p>Not Present</p> <p>FALSE</p> <p>TRUE FDD FALSE TRUE FALSE</p> <p>TRUE</p> <p>TRUE FDD FALSE TRUE FALSE</p> <p>Not Present</p> <p>Acknowledged mode RLC Event trigger Intra-frequency measurement reporting criteria</p> <p>3 kinds 1a Not Present Monitored set cells 10 (5dB) Not Present 1(0.1): 34.123 test cases 10(1.0): 34.121 test cases 0 (0.0) Not Present 2 Not Present 640 4 4 000</p> <p>Report cell within active set and/or monitored set cells on used frequency</p> <p>3 1b Active set cells Not Present 10 (5dB) Not Present 1 (0.1): 34.123 test cases 10(1.0): 34.121 test cases 0 (0.0) Not Present Not Present</p> |

| | | |
|---|---------------|--|
| <ul style="list-style-type: none"> - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status | | <p>Not Present 640 Not Present Not Present</p> |
| <ul style="list-style-type: none"> - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-frequency cell info list - CHOICE Inter-frequency cell removal - New inter-frequency cells - Inter frequency cell id - Frequency info - CHOICE mode - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info - Cell individual offset - Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary scrambling code - Primary CPICH Tx power - TX Diversity Indicator - Cell Selection and Re-selection Info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info | <p>A1, A2</p> | <p>Report cell within active set and/or monitored set cells on used frequency 3 1c Not Present Not Present Not Present Not Present Not Present 0 (0.0) Not Present Not Present 3 640 4 4 000</p> <p>Report cell within active set and/or monitored set cells on used frequency 3</p> <p>Not present (This IE shall be ignored by the UE for SIB11)</p> <p>4</p> <p>FDD Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] Reference to table 6.1.2 for Cell 4</p> <p>Not present Absence of this IE is equivalent to default value 0 dB</p> <p>Not present FALSE FDD</p> <p>Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>Not present FALSE</p> <p>Not present (same values as for serving cell applies)</p> <p>5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |

| | | |
|--|----------------------|---|
| <ul style="list-style-type: none"> - Cell info - Cell for measurement - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT cell info list - CHOICE <i>Inter-RAT cell removal</i> | <p>A1, A3 A2</p> | <p>Same content as specified for Inter-frequency cell id=4 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> <p>Not present Not Present</p> <p>Not Present (This IE shall be ignored by the UE for SIB11)</p> |
| <ul style="list-style-type: none"> - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Cell for measurement - Traffic volume measurement system information | <p>A1, A2, A3</p> | <p>9 GSM</p> <p>0 Not Present</p> <p>Reference to table 6.1.10 for Cell 9 According to PICS/PIXIT</p> <p>10 Reference to table 6.1.10 for Cell 9 GSM</p> <p>0 Not Present</p> <p>Reference to table 6.1.10 for Cell 10 According to PICS/PIXITs Reference to table 6.1.10 for Cell 10 Not present Not Present</p> |

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

Contents of System Information Block type 11 (3.84 Mcps, 1.28 Mcps and 7.68 Mcps TDD)

This is the default message content of SIB 11 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 11 (TDD) for cell 2 to 8.

| | | |
|--|-----------------------------|--|
| <ul style="list-style-type: none"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE intra-frequency cell removal - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power | <p>A1, A2</p> <p>A1, A2</p> | <p>TRUE Not Present</p> <p>Not used CPICH RSCP</p> <p>Not Present Absence of this IE is equivalent to default value 1</p> <p>Not present (This IE shall be ignored by the UE for SIB11)</p> <p>1</p> <p>Not present Absence of this IE is equivalent to default value 0dB Not Present</p> <p>FALSE TDD</p> <p>Reference clause 6.1.4 Default settings for cell Not Present</p> |
|--|-----------------------------|--|

| | | |
|--|-----------------------------|--|
| <ul style="list-style-type: none"> - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 3.84 Mcps TDD <ul style="list-style-type: none"> - Timeslot number - Burst type - 1.28 Mcps TDD <ul style="list-style-type: none"> - Timeslot number - Cell Selection and Re-selection info | | <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present (The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info <ul style="list-style-type: none"> - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 3.84 Mcps TDD <ul style="list-style-type: none"> - Timeslot number - Burst type - 1.28 Mcps TDD <ul style="list-style-type: none"> - Timeslot number - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | | <p>2</p> <p>Not present Absence of this IE is equivalent to default value 0dB</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>Refer to clause titled "Default setting for cell No.2 (TDD)" in clause 6.1.4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>3</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.3(TDD)" in clause 6.1.4</p> <p>7</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.7(TDD)" in clause 6.1.4</p> <p>8</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.8(TDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> - Cell for measurement - Intra-frequency measurement quantity - Filter coefficient - CHOICE mode <ul style="list-style-type: none"> - Measurement quantity list <ul style="list-style-type: none"> - Measurement quantity - Intra-frequency reporting quantity for RACH Reporting <ul style="list-style-type: none"> - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Intra-frequency reporting quantity <ul style="list-style-type: none"> - Reporting quantities for active set cells - Cell synchronization information reporting indicator <ul style="list-style-type: none"> - Cell identity reporting indicator - CHOICE mode <ul style="list-style-type: none"> - Timeslot ISCP reporting indicator - Proposed TSGN reporting required - P-CCPCH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for monitored set cells <ul style="list-style-type: none"> - Cell synchronization information reporting indicator <ul style="list-style-type: none"> - Cell identity reporting indicator | <p>A1, A2</p> <p>A1, A2</p> | <p>Not Present</p> <p>Not present Absence of this IE is equivalent to the default value 0</p> <p>TDD</p> <p>P-CCPCH RSCP</p> <p>Not Present</p> <p>Not Present</p> <p>TRUE</p> <p>TRUE</p> <p>TDD</p> <p>FALSE</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>FALSE</p> <p>TRUE</p> |

| | | |
|---|---------------|--|
| <ul style="list-style-type: none"> - CHOICE mode - Timeslot ISCP reporting indicator - Proposed TSGN reporting required - P-CCPCH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for detected set cells - Measurement reporting mode - Measurement Report Transfer Mode - Periodical Reporting / Event Trigger Reporting Mode -CHOICE report criteria - Intra-frequency measurement reporting criteria - Parameters required for each event - Intra-frequency event identity - Triggering condition1 - Triggering condition2 - Reporting Range Constant - cells forbidden to affect reporting range - W(optional in case of 1a,1b) - Hysteresis - Threshold used frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cells - Maximum number of reported cells - Inter-frequency measurement system information - Inter-frequency cell info list - CHOICE Inter-frequency cell removal - New inter-frequency cells - Inter frequency cell id - Frequency info - CHOICE mode - UARFCN (Nt) - Cell info - Cell individual offset - Reference time difference to cell | <p>A1, A2</p> | <p>TDD FALSE FALSE TRUE FALSE Not Present</p> <p>Acknowledged mode RLC Event trigger</p> <p>1g Not Present Not Present Not Present Not Present Not Present 0.0 Not Present 3 Not Present 640 4 4000</p> <p>Report cell within active set and/or monitored cells on used frequency 3</p> <p>Not present (This IE shall be ignored by the UE for SIB11)</p> <p>4</p> <p>TDD Reference to table 6.1.7 for Cell 4</p> <p>Not present Absence of this IE is equivalent to default value 0dB Not present</p> |
| <ul style="list-style-type: none"> - Read SFN indicator - CHOICE mode - Primary CCPCH info - Primary CCPCH Tx power - TX Diversity Indicator - Cell Selection and Re-selection Info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Cell for measurement - Inter-RAT measurement system information | <p>A1</p> | <p>FALSE TDD Refer to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 Not present FALSE Not present (same values as for serving cell applies) 5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4 Not present Not Present</p> |

| | | |
|---|--------|--|
| - Inter-RAT measurement system information | A2 | |
| - Inter-RAT cell info list | | Not Present |
| - CHOICE <i>Inter-RAT cell removal</i> | | (This IE shall be ignored by the UE for SIB11) |
| - New inter-RAT cells | | 9 |
| - Inter-RAT cell id | | GSM |
| - CHOICE <i>Radio Access Technology</i> | | |
| - GSM | | 0 |
| - Cell individual offset | | Not Present |
| - Cell selection and re-selection info | | |
| - BSIC | | |
| - Base transceiver Station Identity Code (BSIC) | | Reference to table 6.1.10 for Cell 9 |
| - Band indicator | | According to PICS/PIXIT |
| - BCCH ARFCN | | Reference to table 6.1.10 for Cell 9 |
| - Inter-RAT cell id | | 10 |
| - CHOICE <i>Radio Access Technology</i> | | GSM |
| - GSM | | |
| - Cell individual offset | | 0 |
| - Cell selection and re-selection info | | Not Present |
| - BSIC | | |
| - Base transceiver Station Identity Code (BSIC) | | Reference to table 6.1.10 for Cell 10 |
| - Band indicator | | According to PICS/PIXITs |
| - BCCH ARFCN | | Reference to table 6.1.10 for Cell 10 |
| - Cell for measurement | | Not present |
| - Traffic volume measurement system information | A1, A2 | Not Present |

| Condition | Explanation |
|-----------|------------------------------------|
| A1 | TDD cell environment |
| A2 | TDD/GSM inter-RAT cell environment |

Contents of System Information Block type 12 in connected mode (FDD)

This is the default message content of SIB 12 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 12 (FDD) for cell 2 to 8.

| | |
|---|-------------|
| - FACH measurement occasion info | Not Present |
| - Measurement control system information | |
| - Use of HCS | Not used |
| - Cell selection and reselection quality measure | CPICH RSCP |
| - Intra-frequency measurement system information | Not Present |
| - Inter-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system information | Not Present |

Contents of System Information Block type 12 in connected mode (3.84 Mcps, 1.28 Mcps and 7.68 Mcps TDD)

This is the default message content of SIB 12 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 12 (TDD) for cell 2 to 8.

| | |
|--|-------------|
| - FACH measurement occasion info | Not Present |
| - Measurement control system information | |
| - Use of HCS | Not used |
| - Cell selection and reselection quality measure | CPICH RSCP |
| - Intra-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system information | Not Present |

Contents of System Information Block type 13 (used when supported PLMN type is ANSI-41)

| | |
|--|------------------------------------|
| - CN Domain system information list | |
| - CN Domain system information | <i>For Packet-Switched domain</i> |
| - CN domain identity | PS |
| - CHOICE CN Type | ANSI-41 |
| - CN domain specific NAS system information | |
| - NAS (ANSI-41) system information | T.B.D |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN Domain system information | <i>For Circuit-Switched domain</i> |
| - CN domain identity | CS |
| - CHOICE CN Type | ANSI-41 |
| - CN domain specific NAS system information | |
| - NAS (ANSI-41) system information | T.B.D |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE timers and constants in idle mode | |
| - T300 | 400 milliseconds |
| - N300 | 3 |
| - T312 | 10 seconds |
| - N312 | 200 |
| - Capability update requirement | |
| - UE radio access FDD capability update requirement | TRUE |
| - UE radio access TDD capability update requirement | FALSE |
| - System specific capability update requirement list | Not Present |

Contents of System Information Block type 14 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|----------------------|
| - Individual Timeslot interference list | |
| - Individual Timeslot interference | |
| - Timeslot number | 2 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 3 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 4 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 5 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 6 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 7 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 9 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 10 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 11 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 12 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 13 |
| - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | |
| - Timeslot number | 14 |
| - UL Timeslot Interference | -90 dbm |
| - Expiration Time Factor | Not Present (MD "1") |

Contents of System Information Block type 16 (FDD)

| | |
|--|------------------------------|
| - Pre-Defined Radio Configuration | (12.2 KBPS AMR) |
| - Pre-defined RB configuration | |
| - Re-establishment timer | useT315 |
| - SRB InformationList | |
| - Signalling RB information to setup | (UM DCCH for RRC) |
| - RB identity | 1 |
| - CHOICE RLC info type | |
| - RLC info | |
| - CHOICE Uplink RLC mode | UM RLC |
| - Transmission RLC discard | timerBasedNoExplicit : dt100 |
| - CHOICE Downlink RLC mode | UM RLC |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - Logical channel identity | 1 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 1 |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 10 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 1 |
| - Signalling RB information to setup | (AM DCCH for RRC) |
| - RB identity | 2 |
| - CHOICE RLC info type | |
| - RLC info | |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | |
| - SDU discard mode | Max DAT retransmissions |
| - MAX_DAT | 4 |
| - Timer_MRW | 100 |
| - MaxMRW | 4 |
| - Transmission window size | 8 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not Present |
| - Poll_SDU | 1 |
| - Last transmission PDU poll | TRUE |
| - Last retransmission PDU poll | TRUE |
| - Poll_Window | 99 |
| - Timer_poll_periodic | Not Present |
| - CHOICE Downlink RLC mode | AM RLC |
| - In-sequence delivery | TRUE |
| - Receiving window size | 8 |
| - Downlink RLC status info | |
| - Timer_status_prohibit | 200 |
| - Timer_EPC | 200 |
| - Missing PDU indicator | TRUE |
| - Timer_STATUS_periodic | Not Present |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - Logical channel identity | 2 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 2 |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | DCH |

| | |
|--|-------------------------|
| - DL DCH Transport channel identity | 10 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 2 |
| - Signalling RB information to setup | (AM DCCH for RRC) |
| - RB identity | 3 |
| - CHOICE RLC info type | |
| - RLC info | |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | |
| - SDU discard mode | Max DAT retransmissions |
| - MAX_DAT | 4 |
| - Timer_MRW | 100 |
| - MaxMRW | 4 |
| - Transmission window size | 8 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not Present |
| - Poll_SDU | 1 |
| - Last transmission PDU poll | TRUE |
| - Last retransmission PDU poll | TRUE |
| - Poll_Window | 99 |
| - Timer_poll_periodic | Not Present |
| - CHOICE Downlink RLC mode | AM RLC |
| - In-sequence delivery | TRUE |
| - Receiving window size | 8 |
| - Downlink RLC status info | |
| - Timer_status_prohibit | 200 |
| - Timer_EPC | 200 |
| - Missing PDU indicator | TRUE |
| - Timer_STATUS_periodic | Not Present |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - Logical channel identity | 3 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 3 |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 10 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 3 |
| - Signalling RB information to setup | (AM DCCH for RRC) |
| - RB identity | 4 |
| - CHOICE RLC info type | |
| - RLC info | |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | |
| - SDU discard mode | Max DAT retransmissions |
| - MAX_DAT | 4 |
| - Timer_MRW | 100 |
| - MaxMRW | 4 |
| - Transmission window size | 8 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not Present |
| - Poll_SDU | 1 |
| - Last transmission PDU poll | TRUE |
| - Last retransmission PDU poll | TRUE |

| | |
|--|-------------|
| - Poll_Window | 99 |
| - Timer_poll_periodic | Not Present |
| - CHOICE Downlink RLC mode | AM RLC |
| - In-sequence delivery | TRUE |
| - Receiving window size | 8 |
| - Downlink RLC status info | |
| - Timer_status_prohibit | 200 |
| - Timer_EPC | 200 |
| - Missing PDU indicator | TRUE |
| - Timer_STATUS_periodic | Not Present |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - Logical channel identity | 4 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 4 |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 10 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 4 |
| - RAB information for setup | |
| - RB information to setup | |
| - RB identity | 10 |
| - PDCP info | Not Present |
| - CHOICE RLC info type | RLC info |
| - CHOICE Uplink RLC mode | TM RLC |
| - Transmission RLC discard | Not Present |
| - Segmentation indication | TRUE |
| - CHOICE Downlink RLC mode | TM RLC |
| - Segmentation indication | TRUE |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of uplink RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 1 |
| - Logical channel identity | 7 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 6 |
| - Downlink RLC logical channel info | |
| - Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 6 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 7 |
| - RB identity | 11 |
| - PDCP info | Not Present |
| - CHOICE RLC info type | RLC info |
| - CHOICE Uplink RLC mode | TM RLC |
| - Transmission RLC discard | Not Present |
| - Segmentation indication | TRUE |
| - CHOICE Downlink RLC mode | TM RLC |
| - Segmentation indication | TRUE |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of uplink RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 2 |
| - Logical channel identity | 8 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 6 |
| - Downlink RLC logical channel info | |

| | |
|---|--|
| - Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 7 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 8 |
| - RB identity | 12 |
| - PDCP info | Not Present |
| - CHOICE RLC info type | RLC info |
| - CHOICE Uplink RLC mode | TM RLC |
| - Transmission RLC discard | Not Present |
| - Segmentation indication | TRUE |
| - CHOICE Downlink RLC mode | TM RLC |
| - Segmentation indication | TRUE |
| - RB mapping info | |
| - Information for each multiplexing option | |
| - RLC logical channel mapping indicator | Not Present |
| - Number of uplink RLC logical channels | 1 |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 3 |
| - Logical channel identity | 9 |
| - CHOICE RLC size list | Configured |
| - MAC logical channel priority | 6 |
| - Downlink RLC logical channel info | |
| - Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 8 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 9 |
| - Pre-Defined Transport Channel Configuration | |
| - UL CommonTransChInfo | |
| - UL TFCS | |
| - TFC subset | Default value is the complete existing set of transport format combinations |
| - Allowed Transport Format combination | 0,1,2,3,4,5 |
| - PRACH TFCS | Not Present |
| - CHOICE mode | FDD |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Addition |
| - TFCS addition configure information | |
| - CHOICE TFCS Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4.1.4.1 Parameter Set. |
| - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - CHOICE mode | FDD |
| - Gain factor β_c | 0 |
| - Gain factor β_d | 0 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | 0 dB |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | 0 dB |
| - Added or Reconfigured UL TrCH information | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 1 |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference to clause 6.10.2.4.1.4.1 Parameter Set (This IE is repeated for TFI number.) |
| - Number of TBs and TTI List | |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Type of channel coding | Reference to clause 6.10.2.4.1.4.1 Parameter Set |

| | |
|---|--|
| - Coding Rate | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 2 |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Type of channel coding | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Coding Rate | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 3 |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Type of channel coding | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Coding Rate | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | |
| - Transmission time interval | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Type of channel coding | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Coding Rate | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Rate matching attribute | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - CRC size | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - DL CommonTransChInfo | |
| - SCCPCH TFCS | Not Present |
| - CHOICE mode | FDD |
| - CHOICE DL parameters | SameasUL |
| - Added or Reconfigured DL TrCH information | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 6 |
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 1 |
| - DCH quality target | |
| - BLER Quality value | 0 |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 7 |
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 2 |

| | |
|--|------------|
| - DCH quality target | |
| - BLER Quality value | 0 |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 8 |
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 3 |
| - DCH quality target | |
| - BLER Quality value | 0 |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 10 |
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 5 |
| - DCH quality target | |
| - BLER Quality value | 0 |
| - Pre-Defined Physical Channel Configuration | |
| - Uplink DPCH power control info Predef | |
| - CHOICE mode | FDD |
| - Power Control Algorithm | Algorithm1 |
| - CHOICE mode | FDD |
| - TFCI existence | FALSE |
| - Puncturing Limit | 0.88 |
| - Downlink DPCH power control info Predef | |
| - CHOICE mode | FDD |
| - Spreading factor | 128 |
| - Fixed or Flexible Position | Fixed |
| - TFCI existence | FALSE |

Contents of System Information Block type 17 (3.84 Mcsps TDD and 1.28 Mcsps TDD)

This system information block contains fast changing parameters for the configuration of the shared physical channels to be used in connected mode, so this is not present.

Contents of System Information Block type 18

| | |
|---------------------------------------|-------------|
| - Idle mode PLMN identities | |
| - PLMNs of intra-frequency cells list | Not present |
| - PLMNs of inter-frequency cells list | Not present |
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 19

The system information block type 19 contains Inter-RAT frequency and priority information to be used in the cell

| Information Element | Value/remark | Version |
|---|--------------|----------------|
| SysInfoType19 | | REL-8 or later |
| utra-PriorityInfoList | | |
| utra-ServingCell | | |
| priority | 3 | |
| s-PrioritySearch1 | 0 (0dB) | |
| s-PrioritySearch2 | Not present | |
| threshServingLow | 0 (0dB) | |
| | | |
| utran-FDD-FrequencyList (SIZE(1..maxNumFDDFreqs)) | Not present | |
| utran-TDD-FrequencyList (SIZE(1..maxNumTDDFreqs)) | Not present | |
| gsm-PriorityInfoList (SIZE (1..maxNumGSMCellGroup)) | Not present | |
| eutra-FrequencyAndPriorityInfoList (SIZE (1..maxNumEUTRAFreqs)) | Not present | |
| nonCriticalExtensions SEQUENCE | Not present | |

Contents of System Information Block type 21

| Information Element | Value/remark |
|--|--------------|
| EAB Parameters | |
| - CHOICE <i>barring representation</i> | |
| - EAB Parameters Per PLMN List | Not present |
| - EAB Parameters For All | |
| - Common EAB Parameters | |
| - EAB Category | a |
| - EAB Access Class Barred List | 10 items |
| - Access Class Barred[y] | 'Barred'. |

Contents of System Information Block type 22

| Information Element | Value/remark |
|---|--------------|
| - PRACH preamble control parameters extension list Type 1 (for Enhanced Uplink) | Not present |
| - PRACH preamble control parameters extension list Type 2 (for Enhanced Uplink) | Not present |
| - PRACH preamble control parameters extension list Type 3 (for Enhanced Uplink) | Not present |
| - Concurrent Deployment of 2ms and 10ms TTI | Not present |
| - NodeB triggered HS-DPCCH Transmission | Not present |
| - Fallback R99 PRACH info | Not present |
| - Common E-DCH Resource Configuration Information List Extension | Not present |
| - HS-DSCH DRX in CELL_FACH with second DRX cycle Information | Not present |

Contents of System Information Block type 23

| Information Element | Condition | Value/remark |
|----------------------------------|--------------------|--|
| - CHOICE WLAN representation | | WLAN Offload Information common for all PLMN |
| - WLAN Offload Information | | |
| - WLAN Offload Configuration | | |
| -Threshold Serving RSCP | RSCP | |
| -ThreshservingOffloadWLAN, low | | Set according to specific message content |
| -ThreshservingOffloadWLAN, high | | Set according to specific message content |
| -Threshold Serving Ec/No | Ec/No | |
| -ThreshservingOffloadWLAN, low2 | | Set according to specific message content |
| -ThreshservingOffloadWLAN, high2 | | Set according to specific message content |
| -Threshold Channel Utilization | ChannelUtilization | |
| -ThreshchUtilWLAN, low | | Set according to specific message content |
| -ThreshchUtilWLAN, high | | Set according to specific message content |
| -Threshold Backhaul Bandwidth | BackHaul | |
| -ThreshbackhRateDLWLAN, low | | Set according to specific message content |
| -ThreshbackhRateDLWLAN, high | | Set according to specific message content |
| -ThreshbackhRateULWLAN, low | | Set according to specific message content |
| -ThreshbackhRateULWLAN, high | | Set according to specific message content |
| -Threshold Beacon RSSI | RSSI | |
| -ThreshBeaconRSSIWLAN, low | | Set according to specific message content |
| -ThreshBeaconRSSIWLAN, high | | Set according to specific message content |
| -Offload Preference Indicator | | '1111 1111 1111 1111'B |
| -TsteeringWLAN | | 0 |
| -WLAN Identifier List | | Only 1 WLAN identifier broadcasted |
| - WLAN Identifier | | |
| - WLAN Type ID | | |
| -SSID | | Set as per Table 4.4.8-1 of 36.508[45] |
| -BSSID | | Not Present |
| -HESSID | | Not Present |

| Condition | Explanation |
|--------------------|---|
| RSCP | RSCP based thresholds are to be used |
| Ec/No | Ec/No based thresholds are to be used |
| ChannelUtilization | Channel Utilization based thresholds are to be used |
| BackHaul | BackHaul Bandwidth based thresholds are to be used |
| RSSI | Beacon RSSI based thresholds are to be used |

6.1.1 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second SCCPCH

Two SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and the second SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/DCCH/BCCH.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs.

Contents of System Information Block type 5 (FDD)

| Information Element | Condition | Value/remark | Version |
|---------------------------------|-----------|------------------------|---------|
| - SIB6 indicator | | TRUE | |
| - PICH Power offset | | -5 dB | |
| - CHOICE Mode | | FDD | |
| - AICH Power offset | | -5 dB | |
| - Primary CCPCH info | | Not Present | |
| - PRACH system information list | | | |
| - PRACH system information | | | |
| - PRACH info | | | |
| - CHOICE mode | | FDD | |
| - Available Signature | | '0000 0000 1111 1111'B | |
| - Available SF | | 64 | |

| | | |
|---|---|--------------|
| <ul style="list-style-type: none"> - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Additional RACH TFS for CCCH - RLC size - Number of Transport blocks - RACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE Mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m | <p>0</p> <p>1.00</p> <p>'1111 1111 1111'B</p> <p>15</p> <p>Common transport channels</p> <p>168</p> <p>1</p> <p>FDD</p> <p>Configured</p> <p>360</p> <p>1</p> <p>FDD</p> <p>Configured</p> <p>20 ms</p> <p>Convolutional</p> <p>1/2</p> <p>150</p> <p>16</p> <p>240</p> <p>1</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Computed Gain Factor</p> <p>0</p> <p>FDD</p> <p>0 dB</p> <p>1</p> <p>Signalled Gain Factor</p> <p>FDD</p> <p>11</p> <p>15</p> <p>0</p> <p>FDD</p> <p>0 dB</p> | <p>Rel6</p> |
| <ul style="list-style-type: none"> - Additional RACH TFCS for CCCH - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting | <p>0 dB</p> <p>Signalled Gain Factor</p> <p>FDD</p> <p>11</p> <p>15</p> <p>0</p> <p>FDD</p> <p>0 dB</p> <p>Not Present</p> <p>FDD</p> <p>0 (ASC#1)</p> <p>7 (ASC#1)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>Not Present</p> | <p>Rel-6</p> |

| | | |
|---|---|--|
| <ul style="list-style-type: none"> - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code | <p>FDD 0 (ASC#3) 7 (ASC#3) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present</p> <p>FDD 0 (ASC#5) 7 (ASC#5) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present</p> <p>FDD 0 (ASC#7) 7 (ASC#7) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 0.9 (for ASC#7)</p> <p>6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15)</p> <p>FDD 31 -10</p> <p>3dB 4</p> <p>2 3 slot 10 slot</p> <p>3 FALSE 0 (For 2 SCCPCHs) (SCCPCH for standalone PCH)</p> <p>FDD Not Present</p> | |
| <ul style="list-style-type: none"> - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling | <p>FALSE 128 4 FALSE FALSE Fixed 30 (7680 Chip)</p> <p>Normal</p> | |

| | | |
|--|--|--|
| <ul style="list-style-type: none"> - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information | <ul style="list-style-type: none"> Complete reconfiguration 2 bit 0 Not Present 1 Not Present (PCH) Common transport channels 240 0 1 FDD ALL 10 ms Convolutional 1/2 230 16 bit 12 (for PCH) FALSE FDD 2 18 FALSE (SCCPCH including two FACHs) FDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 Normal Complete reconfiguration 4 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present | |
| <ul style="list-style-type: none"> - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks | <ul style="list-style-type: none"> (FACH) Common transport channels 168 0 1 2 | |

| | | | |
|--|----|---------------------------|--|
| - CHOICE Mode | | FDD | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Convolutional | |
| - Coding Rate | | 1/2 | |
| - Rate matching attribute | | 220 | |
| - CRC size | | 16 bit | |
| - Transport channel Identity | | 13 (for FACH) | |
| - CTCH indicator | | FALSE | |
| - TFS | | (FACH) | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC Size | | 360 | |
| - Number of TB and TTI List | | | |
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Mode | | FDD | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Turbo | |
| - Rate matching attribute | | 130 | |
| - CRC size | | 16bit | |
| - Transport channel Identity | | 14 (for FACH) | |
| - CTCH indicator | | FALSE | |
| - CBS DRX Level 1 information | | Not Present | |
| - Frequency Band Indicator | A1 | Not Present | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A2 | FDD Band under test | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A3 | Extension indicator | |
| - Frequency Band Indicator 2 | | FDD Band under test | |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | Band I, Band II, Band III |
| A2 | Band V, Band VI, Band VII |
| A3 | Band VIII & bands beyond Band X |

Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

| | | |
|------------------------------|----|---------------------|
| - Frequency Band Indicator | A1 | FDD Band under test |
| - Frequency Band Indicator 2 | | Not Present |
| - Frequency Band Indicator | A2 | Extension indicator |
| - Frequency Band Indicator 2 | | FDD Band under test |

| Condition | Explanation |
|-----------|-----------------|
| A1 | Band IV |
| A2 | Band IX, Band X |

Contents of System Information Block type 5 (3.84 Mcps TDD)

| | |
|-------------------------------|-----------------------|
| - SIB6 indicator | FALSE |
| - CHOICE Mode | TDD |
| - TDD open loop power control | |
| - PUSCH system information | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Alpha | (1/8) |

| | |
|---|---------------------------|
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | -10 |
| - UE positioning related parameters | Not Present /REL-4/ |
| - Primary CCPCH info | |
| - CHOICE <i>mode</i> | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - CHOICE SyncCase | Sync Case 2 |
| - Timeslot | 0 |
| - Cell parameters ID | Not Present |
| - SCTD indicator | FALSE |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List | |
| - CHOICE SF | SF8 |
| - Channelisation Code List | |
| - Channelisation Code | 8/1 |
| - Channelisation Code | 8/2 |
| - Channelisation Code | 8/3 |
| - Channelisation Code | 8/4 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present /REL-4/ |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | 168 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | Configured |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | Configured |
| - Semi-static Transport Format information | |
| - Transmission time interval | 20 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 150 |
| - CRC size | 16 |
| - RACH TFCS | |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor |
| - Reference TFC ID | 0 |
| - CHOICE Mode | TDD |
| - Power offset Pp-m | 0 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - CHOICE mode | TDD |
| - Gain factor βc | 11 |
| - Gain factor βd | 15 |
| - Reference TFC ID | 0 |
| - CHOICE Mode | TDD |
| - Power offset Pp-m | 0 dB |
| - PRACH partitioning | |

| | |
|---|-----------------------------|
| - Access Service Class | |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |
| - Persistence scaling factor | 0.9 (for ASC#2) |
| - Persistence scaling factor | 0.9 (for ASC#3) |
| - Persistence scaling factor | 0.9 (for ASC#4) |
| - Persistence scaling factor | 0.9 (for ASC#5) |
| - Persistence scaling factor | 0.9 (for ASC#6) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE mode | TDD (no data) |
| - Secondary CCPCH system information | (For 2 SCCPCHs) |
| - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| - CHOICE mode | TDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 4 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | FALSE |
| - Fixed or Flexible position | Fixed |
| - Timing offset | 30 (7680 Chip) |
| - TFCS | |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (PCH) |

| | |
|---|---|
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 240 |
| - Number of TB and TTI List | 0 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 230 |
| - CRC size | 16 bit |
| - Transport channel Identity | 12 (for PCH) |
| - CTCH indicator | FALSE |
| - PICH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Midamble shift and burst type | 4 |
| - CHOICE Burst Type | Type 1 |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration burst type 1 | 8 |
| and 3 | |
| - Midamble Shift | Not Present |
| - Channelisation code | 16/16 |
| - Repetition period/length | 64/2 |
| - Offset | 0 |
| - Paging indicator length | 4 |
| - NGAP | 4 |
| - NPCH | 2 |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - CHOICE mode | TDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| - TFCS | Absence of this IE is equivalent to default value 0 |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 4 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - CTFC information | 2 |
| - Power offset information | Not Present |
| - CTFC information | 3 |
| - Power offset information | Not Present |
| - CTFC information | 4 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 168 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |

| | |
|--|---------------------------|
| - Number of Transport blocks | 1 |
| - Number of Transport blocks | 2 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 220 |
| - CRC size | 16 bit |
| - Transport channel Identity | 13 (for FACH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Turbo |
| - Rate matching attribute | 130 |
| - CRC size | 16bit |
| - Transport channel Identity | 14 (for FACH) |
| - CTCH indicator | FALSE |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 5 (1.28 Mcps TDD)

<FFS>

Contents of System Information Block type 5 (3.84 Mcps TDD)

| | |
|-------------------------------------|-----------------------|
| - SIB6 indicator | FALSE |
| - CHOICE Mode | TDD |
| - TDD open loop power control | |
| - PUSCH system information | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Alpha | (1/8) |
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | -10 |
| - UE positioning related parameters | Not Present /REL-4/ |
| - Primary CCPCH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - CHOICE SyncCase | Sync Case 2 |
| - Timeslot | 0 |
| - Cell parameters ID | Not Present |
| - SCTD indicator | FALSE |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD /REL-4/ |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List | |
| - CHOICE SF | SF8 |
| - Channelisation Code List | |
| - Channelisation Code | 8/1 |
| - Channelisation Code | 8/2 |

| | |
|---|---------------------------|
| - Channelisation Code | 8/3 |
| - Channelisation Code | 8/4 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present /REL-4/ |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | 168 |
| - Number of TB and TTI List | 1 |
| - Number of Transport blocks | TDD |
| - CHOICE Mode | Configured |
| - CHOICE Logical channel List | 360 |
| - RLC size | |
| - Number of TB and TTI List | 1 |
| - Number of Transport blocks | TDD |
| - CHOICE Mode | Configured |
| - CHOICE Logical channel List | |
| - Semi-static Transport Format information | |
| - Transmission time interval | 20 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 150 |
| - CRC size | 16 |
| - RACH TFCS | |
| - CHOICE TFCS signalling | Normal |
| - TFCS Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor |
| - Reference TFC ID | 0 |
| - CHOICE Mode | TDD |
| - Power offset Pp-m | 0 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - CHOICE mode | TDD |
| - Gain factor β_c | 11 |
| - Gain factor β_d | 15 |
| - Reference TFC ID | 0 |
| - CHOICE Mode | TDD |
| - Power offset Pp-m | 0 dB |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Available Channelisation codes indices | Not Present (Default all) |
| - CHOICE subchannel size | Size1 |
| - Available Subchannels | null |

| | |
|---|-----------------------------|
| - ASC Setting | Not Present |
| - ASC Setting | TDD |
| - CHOICE mode | 3.84 Mcps TDD |
| - CHOICE TDD option | Not Present (Default all) |
| - Available Channelisation codes indices | Size1 |
| - CHOICE subchannel size | null |
| - Available Subchannels | |
| - Persistence scaling factor | 0.9 (for ASC#2) |
| - Persistence scaling factor | 0.9 (for ASC#3) |
| - Persistence scaling factor | 0.9 (for ASC#4) |
| - Persistence scaling factor | 0.9 (for ASC#5) |
| - Persistence scaling factor | 0.9 (for ASC#6) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE mode | TDD (no data) |
| - Secondary CCPCH system information | (For 2 SCCPCHs) |
| - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| - CHOICE mode | TDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 4 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | FALSE |
| - Fixed or Flexible position | Fixed |
| - Timing offset | 30 (7680 Chip) |
| - TFCS | |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 240 |
| - Number of TB and TTI List | 0 |
| - Number of Transport blocks | 1 |
| - Number of Transport blocks | TDD |
| - CHOICE Mode | ALL |
| - CHOICE Logical channel List | |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 230 |
| - CRC size | 16 bit |
| - Transport channel Identity | 12 (for PCH) |
| - CTCH indicator | FALSE |
| - PICH info | |
| - CHOICE mode | TDD |

| | |
|---|---|
| - CHOICE TDD option | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Midamble shift and burst type | 4 |
| - CHOICE Burst Type | Type 1 |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration burst type 1 | 8 |
| and 3 | |
| - Midamble Shift | Not Present |
| - Channelisation code | 16/16 |
| - Repetition period/length | 64/2 |
| - Offset | 0 |
| - Paging indicator length | 4 |
| - NGAP | 4 |
| - NPCH | 2 |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - CHOICE mode | TDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |
| - TFCS | |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 4 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - CTFC information | 2 |
| - Power offset information | Not Present |
| - CTFC information | 3 |
| - Power offset information | Not Present |
| - CTFC information | 4 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 168 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| - Number of Transport blocks | 2 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 220 |
| - CRC size | 16 bit |
| - Transport channel Identity | 13 (for FACH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |

| | |
|--|---------------|
| - Number of Transport blocks | 1 |
| - CHOICE Mode | TDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Turbo |
| - Rate matching attribute | 130 |
| - CRC size | 16bit |
| - Transport channel Identity | 14 (for FACH) |
| - CTCH indicator | FALSE |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 6 in connected mode (FDD)

| | |
|--------------------------------------|-------------|
| - PICH Power offset | -5 dB |
| - CHOICE Mode | FDD |
| - AICH Power offset | -5 dB |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information | Not Present |

Contents of System Information Block type 6 in connected mode (3.84 Mcps TDD)

None

Contents of System Information Block type 6 in connected mode (1.28 Mcps TDD)

<FFS>

Contents of System Information Block type 6 in connected mode (7.68 Mcps TDD)

<FFS>

6.1.2 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH, RB for CTCH + SRBs for CCCH/BCCH in the second SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the third SCCPCH (FDD only)

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH. The second SCCPCH carries the FACH for CTCH (Cell Broadcast Service) and the FACH for SRBs on CCCH/ BCCH for idle mode UEs. The third SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH for connected mode UEs.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs.

Contents of System Information Block type 5 (FDD)

| Information Element | Condition | Value/remark | Version |
|-----------------------------------|-----------|------------------------|---------|
| - SIB6 indicator | | TRUE | |
| - PICH Power offset | | -5 dB | |
| - CHOICE Mode | | FDD | |
| - AICH Power offset | | -5 dB | |
| - Primary CCPCH info | | Not Present | |
| - PRACH system information list | | | |
| - PRACH system information | | | |
| - PRACH info | | | |
| - CHOICE mode | | FDD | |
| - Available Signature | | '0000 0000 1111 1111'B | |
| - Available SF | | 64 | |
| - Preamble scrambling code number | | 0 | |
| - Puncturing Limit | | 1.00 | |
| - Available Sub Channel number | | '1111 1111 1111'B | |
| - Transport channel Identity | | 15 | |

| | | |
|---|--|-------|
| - RACH TFS | Common transport channels | |
| - CHOICE Transport channel type | | |
| - Dynamic Transport format information | | |
| - RLC size | 168 | |
| - Number of TB and TTI List | | |
| - Number of Transport blocks | 1 | |
| - CHOICE Mode | FDD | |
| - CHOICE Logical channel List | Configured | |
| - RLC size | 360 | |
| - Number of TB and TTI List | | |
| - Number of Transport blocks | 1 | |
| - CHOICE Mode | FDD | |
| - CHOICE Logical channel List | Configured | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | 20 ms | |
| - Type of channel coding | Convolutional | |
| - Coding Rate | 1/2 | |
| - Rate matching attribute | 150 | |
| - CRC size | 16 | |
| - Additional RACH TFS for CCCH | | Rel6 |
| - RLC size | 240 | |
| - Number of Transport blocks | 1 | |
| - RACH TFCS | | |
| - CHOICE TFCI signalling | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE TFCS representation | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | 2 bit | |
| - CTFC information | 0 | |
| - Power offset information | | |
| - CHOICE Gain Factors | Computed Gain Factor | |
| - Reference TFC ID | 0 | |
| - CHOICE mode | FDD | |
| - Power offset Pp-m | 0 dB | |
| - CTFC information | 1 | |
| - Power offset information | | |
| - CHOICE Gain Factors | Signalled Gain Factor | |
| - CHOICE mode | FDD | |
| - Gain factor β_c | 11 | |
| - Gain factor β_d | 15 | |
| - Reference TFC ID | 0 | |
| - CHOICE Mode | FDD | |
| - Power offset Pp-m | 0 dB | |
| - Additional RACH TFCS for CCCH | | Rel-6 |
| - Power offset information | | |
| - CHOICE Gain Factors | Signalled Gain Factor | |
| - CHOICE mode | FDD | |
| - Gain factor β_d | 15 | |
| - Gain factor β_c | 11 | |
| - Reference TFC ID | 0 | |
| - CHOICE Mode | FDD | |
| - Power offset Pp-m | 0 dB | |
| - PRACH partitioning | | |
| - Access Service Class | | |
| - ASC Setting | Not Present | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#1) | |
| - Available signature End Index | 7 (ASC#1) | |
| - Assigned Sub-Channel Number | '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |
| - ASC Setting | Not Present | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#3) | |
| - Available signature End Index | 7 (ASC#3) | |
| - Assigned Sub-Channel Number | '1111'B | |

| | | | |
|--|--|--|--|
| <ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode | | <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present</p> <p>FDD</p> | |
| <ul style="list-style-type: none"> - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information | | <p>0 (ASC#5) 7 (ASC#5) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present</p> <p>FDD 0 (ASC#7) 7 (ASC#7) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 0.9 (for ASC#7)</p> <p>6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15)</p> <p>FDD 31 -10</p> <p>3dB 4</p> <p>2 3 slot 10 slot</p> <p>3 FALSE 0 (For 2 SCCPCHs) (SCCPCH for standalone PCH)</p> <p>FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 (7680 Chip)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit 0</p> | |

| | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | | <ul style="list-style-type: none"> Not Present 1 Not Present (PCH) Common transport channels 240 | |
| <ul style="list-style-type: none"> - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | <ul style="list-style-type: none"> 0 1 FDD ALL 10 ms Convolutional 1/2 230 16 bit 12 (for PCH) FALSE FDD 2 18 FALSE (SCCPCH including two FACHs) FDD Not Present FALSE 128 5 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 Normal Complete reconfiguration 2 bit 0 Not Present 1 Not Present 2 Not Present (FACH) Common transport channels 168 0 1 FDD ALL 10 ms Convolutional 1/3 220 16 bit | |

| | | | |
|--|----|---|--|
| - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks | | 13 (for FACH) FALSE (FACH) Common transport channels 168 0 1 | |
| - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - CBS DRX Level 1 information - Period of CTCH allocation (N) - CBS frame offset (K) - Frequency Band Indicator | A1 | FDD ALL 10 ms Convolutional 1/3 220 16bit 14 (for FACH) TRUE 2 0 Not Present | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A2 | FDD Band under test | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A3 | Extension indicator | |
| - Frequency Band Indicator 2 | | FDD Band under test | |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | Band I, Band II, Band III |
| A2 | Band V, Band VI, Band VII |
| A3 | Band VIII & bands beyond Band X |

Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

| | | |
|------------------------------|----|---------------------|
| - Frequency Band Indicator | A1 | FDD Band under test |
| - Frequency Band Indicator 2 | | Not Present |
| - Frequency Band Indicator | A2 | Extension indicator |
| - Frequency Band Indicator 2 | | FDD Band under test |

| Condition | Explanation |
|-----------|-----------------|
| A1 | Band IV |
| A2 | Band IX, Band X |

Contents of System Information Block type 6 in connected mode (FDD)

| | |
|--------------------------------------|------------------------------|
| - PICH Power offset | -5 dB |
| - CHOICE Mode | FDD |
| - AICH Power offset | -5 dB |
| - Primary CCPCH info | Not present |
| - PRACH system information list | Not Present |
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |

| | |
|---|---------------------------|
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | 90 (23040 Chip) |
| - TFCS | |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE CTFC Size | 4 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - CTFC information | 2 |
| - Power offset information | Not Present |
| - CTFC information | 3 |
| - Power offset information | Not Present |
| - CTFC information | 4 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 168 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| - Number of Transport blocks | 2 |
| - CHOICE Mode | FDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 220 |
| - CRC size | 16 bit |
| - Transport channel Identity | 16 (for FACH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 ms |
| - Type of channel coding | Turbo |
| - Rate matching attribute | 130 |
| - CRC size | 16bit |
| - Transport channel Identity | 17 (for FACH) |
| - CTCH indicator | FALSE |
| - CBS DRX Level 1 information | Not Present |

6.1.3 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second and third SCCPCHs

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and both the second and third SCCPCHs carry the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs. (SIB6 is not used in this configuration.)

Contents of Scheduling Block 1 (FDD)

| | |
|---|---|
| - References to other system information blocks | |
| - Scheduling information | |
| - CHOICE Value tag | Not Present |
| - SEG_COUNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 4 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 7 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 58 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 11 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 26 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 12 |
| - Scheduling information | |
| - CHOICE Value tag | PLMN Value tag |
| - PLMN Value tag | A valid PLMN value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 36 |
| - SIB_POS offset info | Not Present |
| - SIB type SIBs only | System Information Type 18 |

Contents of System Information Block type 5 (FDD)

| Information Element | Condition | Value/remark | Version |
|--|-----------|---------------------------|---------|
| - SIB6 indicator | | FALSE | |
| - PICH Power offset | | -5 dB | |
| - CHOICE Mode | | FDD | |
| - AICH Power offset | | -5 dB | |
| - Primary CCPCH info | | Not Present | |
| - PRACH system information list | | | |
| - PRACH system information | | | |
| - PRACH info | | | |
| - CHOICE mode | | FDD | |
| - Available Signature | | '0000 0000 1111 1111'B | |
| - Available SF | | 64 | |
| - Preamble scrambling code number | | 0 | |
| - Puncturing Limit | | 1.00 | |
| - Available Sub Channel number | | '1111 1111 1111'B | |
| - Transport channel Identity | | 15 | |
| - RACH TFS | | | |
| - CHOICE Transport channel type | | Common transport channels | |
| - Dynamic Transport format information | | | |
| - RLC size | | 168 | |

| | | |
|---|---|--|
| <ul style="list-style-type: none"> - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | <ul style="list-style-type: none"> 1 FDD Configured 360 1 FDD Configured 20 ms Convolutional 1/2 150 16 | |
| <ul style="list-style-type: none"> - Additional RACH TFS for CCCH - RLC size - Number of Transport blocks - RACH TFCS - CHOICE TFCSI signalling - TFCSI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor βc - Gain factor βd - Reference TFC ID - CHOICE Mode - Power offset Pp-m | <ul style="list-style-type: none"> 240 1 Normal Complete reconfiguration 2 bit 0 Computed Gain Factor 0 FDD 0 dB 1 Signalled Gain Factor FDD 11 15 0 FDD 0 dB | <p style="text-align: center;">Rel6</p> |
| <ul style="list-style-type: none"> - Additional RACH TFCS for CCCH - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor βc - Gain factor βd - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index | <ul style="list-style-type: none"> Signalled Gain Factor FDD 11 15 0 FDD 0 dB Not Present FDD 0 (ASC#1) | <p style="text-align: center;">Rel-6</p> |
| <ul style="list-style-type: none"> - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number | <ul style="list-style-type: none"> 7 (ASC#1) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |

| | | | |
|---|--|---|--|
| <ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number | | <p>Not Present</p> <p>FDD</p> <p>0 (ASC#5)</p> <p>7 (ASC#5)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>Not Present</p> | |
| <ul style="list-style-type: none"> - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number | | <p>FDD</p> <p>0 (ASC#7)</p> <p>7 (ASC#7)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>0.9 (for ASC#2)</p> <p>0.9 (for ASC#3)</p> <p>0.9 (for ASC#4)</p> <p>0.9 (for ASC#5)</p> <p>0.9 (for ASC#6)</p> <p>0.9 (for ASC#7)</p> <p>6 (AC0-9)</p> <p>5 (AC10)</p> <p>4 (AC11)</p> <p>3 (AC12)</p> <p>2 (AC13)</p> <p>1 (AC14)</p> <p>0 (AC15)</p> <p>FDD</p> <p>31</p> <p>-10</p> <p>3dB</p> <p>4</p> <p>2</p> <p>3 slot</p> <p>10 slot</p> <p>3</p> <p>FALSE</p> <p>0</p> <p>(For 3 SCCPCHs)</p> <p>(SCCPCH for standalone PCH)</p> <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>128</p> <p>6</p> | |
| <ul style="list-style-type: none"> - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information | | <p>FALSE</p> <p>FALSE</p> <p>Fixed</p> <p>30 (7680 Chip)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p> | |

| | | | |
|---|--|---|--|
| <ul style="list-style-type: none"> - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCl existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCl signalling - TFCl Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information | | <p>(PCH) Common transport channels</p> <p>240</p> <p>0</p> <p>1</p> <p>FDD</p> <p>ALL</p> <p>10 ms</p> <p>Convolutional</p> <p>1/2</p> <p>230</p> <p>16 bit</p> <p>12 (for PCH)</p> <p>FALSE</p> <p>FDD</p> <p>2</p> <p>18</p> <p>FALSE</p> <p>(SCCPCH including two FACHs)</p> <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>64</p> <p>1</p> <p>FALSE</p> <p>TRUE (default value)</p> <p>Flexible (default value)</p> <p>Not Present</p> <p>Absence of this IE is equivalent to default value 0</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>4 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p> <p>2</p> <p>Not Present</p> <p>3</p> <p>Not Present</p> <p>4</p> <p>Not Present</p> <p>(FACH) Common transport channels</p> | |
| <ul style="list-style-type: none"> - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | <p>168</p> <p>0</p> <p>1</p> <p>2</p> <p>FDD</p> <p>ALL</p> <p>10 ms</p> <p>Convolutional</p> <p>1/2</p> <p>220</p> <p>16 bit</p> | |

| | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List | | <p>13 (for FACH) FALSE (FACH) Common transport channels</p> <p>360</p> <p>0 1 FDD ALL</p> <p>10 ms Turbo 130 16bit</p> <p>14 (for FACH) FALSE (SCCPCH including two FACHs) FDD Not Present FALSE 64 2 FALSE TRUE (default value) Flexible (default value) 90 (23040 Chip)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>4 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present</p> <p>(FACH) Common transport channels</p> <p>168</p> <p>0 1 2 FDD ALL</p> | |
| <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List | | <p>10 ms Convolutional 1/2 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels</p> <p>360</p> | |

| | | | |
|--|----|---------------------|--|
| - Number of Transport blocks | | 0 | |
| - Number of Transport blocks | | 1 | |
| - CHOICE Mode | | FDD | |
| - CHOICE Logical channel List | | ALL | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | 10 ms | |
| - Type of channel coding | | Turbo | |
| - Rate matching attribute | | 130 | |
| - CRC size | | 16bit | |
| - Transport channel Identity | | 17 (for FACH) | |
| - CTCH indicator | | FALSE | |
| - CBS DRX Level 1 information | | Not Present | |
| - Frequency Band Indicator | A1 | Not Present | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A2 | FDD Band under test | |
| - Frequency Band Indicator 2 | | Not Present | |
| - Frequency Band Indicator | A3 | Extension indicator | |
| - Frequency Band Indicator 2 | | FDD Band under test | |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | Band I, Band II, Band III |
| A2 | Band V, Band VI, Band VII |
| A3 | Band VIII & bands beyond Band X |

Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

| | | |
|------------------------------|----|---------------------|
| - Frequency Band Indicator | A1 | FDD Band under test |
| - Frequency Band Indicator 2 | | Not Present |
| - Frequency Band Indicator | A2 | Extension indicator |
| - Frequency Band Indicator 2 | | FDD Band under test |

| Condition | Explanation |
|-----------|-----------------|
| A1 | Band IV |
| A2 | Band IX, Band X |

Contents of System Information Block type 5 (3.84 Mcps TDD)

<FFS>

Contents of System Information Block type 5 (1.28 Mcps TDD)

<FFS>

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 100 |

Contents of System Information Block type 11 for cell No.1 (FDD)

See clause 6.1.0b for contents of System Information Block type 11 (FDD) for cell 1.

Contents of System Information Block type 12 in connected mode for cell No.1 (FDD)

See clause 6.1.0b for contents of System Information Block type 12 (FDD) for cell 1.

Default settings for cell No.1 (TDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6 Parameter Set |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 0 |

Contents of System Information Block type 11 for cell No.1 (TDD)

See clause 6.1.0b for contents of System Information Block type 11 (TDD) for cell 1.

Contents of System Information Block type 12 in connected mode for cell No.1 (TDD)

See clause 6.1.0b for contents of System Information Block type 12 (TDD) for cell 1.

Cell No.2

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.2 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0010B |
| URA identity | 0000 0000 0000 0001B |

Default settings for cell No.2 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 150 |

Contents of System Information Block type 11 for cell No.2 (FDD)

| | | |
|---|------------|--|
| - Intra-frequency measurement system information | A1, A2, A3 | |
| | | |
| - New intra-frequency cells | | 2 |
| - Intra-frequency cell id | | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 |
| - Cell info | | 1 |
| - Intra-frequency cell id | | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 |
| - Cell info | | 3 |
| - Intra-frequency cell id | | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | | 7 |
| - Intra-frequency cell id | A1, A3 | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | | 8 |
| - Intra-frequency cell id | | |

| | | |
|---|---------------|--|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info <p>.....</p> | <p>A3</p> | <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <p>.....</p> | <p>A1, A2</p> | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>- Inter-RAT cell info list</p> <p>....</p> <ul style="list-style-type: none"> - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM <ul style="list-style-type: none"> - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM <p>....</p> | <p>A2</p> | <p>9</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p> |

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

Default settings for cell No.2 (TDD)

| | |
|---|--|
| <ul style="list-style-type: none"> Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>4</p> |
|---|--|

Contents of System Information Block type 11 for cell No.2 (TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> | |
|--|--|

| | |
|--|---|
| <p>.....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <p>.....</p> | <p>2</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4</p> <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|--|---|

Cell No.3

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.3 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0011B |
| URA identity | 0000 0000 0000 0010B |

Default settings for cell No.3 (FDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CPICH info - Primary scrambling code | Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 200 |
|---|---|

Contents of System Information Block type 11 for cell No.3 (FDD)

| | | |
|---|------------|--|
| - Intra-frequency measurement system information | A1, A2, A3 | |
| | | |
| - New intra-frequency cells | | |

| | | |
|---|-------------------------|---|
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>A1, A3</p> <p>A3</p> | <p>3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>1 Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11 Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info <p>.....</p> | <p>A1, A2</p> | <p>4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>- Inter-RAT cell info list</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM <p>.....</p> | <p>A2</p> | <p>9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p> |

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

Default settings for cell No.3 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 8 |
|---|---|

Contents of System Information Block type 11 for cell No.3 (TDD)

| | |
|--|--|
| - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | 3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 1 Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
|--|--|

Cell No.4

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.4 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0100B |
| URA identity | 0000 0000 0000 0010B |

Default settings for cell No.4 (FDD)

| | |
|--|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 250 |
|--|---|

Contents of System Information Block type 11 for cell No.4 (FDD)

| | | |
|--|---------------|---|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <p>.....</p> | <p>A1, A2</p> | <p>4 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>5 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu) <ul style="list-style-type: none"> - UARFCN downlink(Nd) - Cell info <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info | <p>A1, A2</p> | <p>1 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4</p> <p>3 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |

| | | |
|--|-----------|---|
| <ul style="list-style-type: none"> - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info | <p>A1</p> | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>7 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>8 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |
| <p>- Inter-RAT cell info list</p> <p>....</p> <ul style="list-style-type: none"> - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM <p>....</p> | <p>A2</p> | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> <p>9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p> |

| Condition | Explanation |
|-----------|------------------------------------|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |

Default settings for cell No.4 (TDD)

| | |
|---|---|
| <ul style="list-style-type: none"> Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>12</p> |
|---|---|

Contents of System Information Block type 11 for cell No.4 (TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>4 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4</p> <p>5 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4</p> |
|--|--|

| | |
|--|--|
| - Intra-frequency cell id - Cell info | 6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4 |
| - Inter-frequency measurement system information | |
| - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) - Cell info | 1 Reference to table 6.1.7 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Inter-frequency cell id - Frequency info | 2 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | 3 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 |
| - Inter-frequency cell id - Frequency info | 4 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | 5 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Inter-frequency cell id - Frequency info | 6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | 7 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter-frequency cell id - Frequency info | 8 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | 9 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |

Cell No.5

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.5 are identical to those of cell No.4 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0101B |
| URA identity | 0000 0000 0000 0011B |

Default settings for cell No.5 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 300 |

Contents of System Information Block type 11 for cell No.5 (FDD)

| | | |
|--|-------------------------|---|
| <p>- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info </p> | <p>A1, A2</p> | <p>5 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4 4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information </p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter-frequency cell id - Frequency info <ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id | <p>A1, A2</p> <p>A1</p> | <p>1 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 2 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 3 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 7 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4 8</p> |

| | | |
|--|----|---|
| <ul style="list-style-type: none"> - Frequency info - Cell info - Inter-RAT cell info list - New inter-RAT cells <ul style="list-style-type: none"> - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Inter-RAT cell id <ul style="list-style-type: none"> - CHOICE <i>Radio Access Technology</i> - GSM | A2 | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b |
|--|----|---|

| Condition | Explanation |
|-----------|------------------------------------|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |

Default settings for cell No.5 (TDD)

| | |
|--|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 114 |
|--|---|

Contents of System Information Block type 11 for cell No.5 (TDD)

| | |
|---|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information - New intra-frequency cells <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Intra-frequency cell id <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id <ul style="list-style-type: none"> - Cell info - Inter-frequency measurement system information - New inter-frequency cells <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) | 5 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4 1 Reference to table 6.1.7 for Cell 1 |
|---|--|

| | |
|---|--|
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 2 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 3 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 7 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 8 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |

Cell No.6

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.6 are identical to those of cell No.4 with the following exceptions:

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0110B |
| URA identity | 0000 0000 0000 0011B |

Default settings for cell No.6 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6 Parameter Set |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 350 |

Contents of System Information Block type 11 for cell No.6 (FDD)

| | | |
|--|--------|---|
| - Intra-frequency measurement system information | A1, A2 | |
| | | |
| - New intra-frequency cells | | |
| - Intra-frequency cell id | | 6 |

| | | |
|---|---------------|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | | <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4 4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> | <p>A1, A2</p> | |
| <ul style="list-style-type: none"> - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info | | <p>1</p> <p>Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] Reference to table 6.1.2 for Cell 1</p> |
| <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info - Cell info | | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 2</p> <p>Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |
| <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info - Cell info | | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 3</p> <p>Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |
| <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info - Cell info | | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 7</p> <p>Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |
| <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info - Cell info | <p>A1</p> | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4 8</p> <p>Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |
| <ul style="list-style-type: none"> - Inter-frequency cell id - Frequency info | | <p>Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> |

| | | |
|---|-----------|--|
| <p>- Cell info</p> <p>.....</p> <p>- Inter-RAT cell info list</p> <p>.....</p> <p>- New inter-RAT cells</p> <ul style="list-style-type: none"> - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM <p>- Inter-RAT cell id</p> <ul style="list-style-type: none"> - CHOICE <i>Radio Access Technology</i> - GSM <p>.....</p> | <p>A2</p> | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> <p>9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|---|-----------|--|

| Condition | Explanation |
|-----------|------------------------------------|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |

Default settings for cell No.6 (TDD)

| | |
|---|--|
| <p>Downlink input level</p> <p>Uplink output power</p> <p>PCCPCH/PCPICH carrier number</p> <p>Cell Channel Description</p> <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>119</p> |
|---|--|

Contents of System Information Block type 11 for cell No.6 (TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <p>- Intra-frequency cell id</p> <p>- Cell info</p> <p>- Intra-frequency cell id</p> <p>- Cell info</p> <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) - Cell info <p>- Inter-frequency cell id</p> | <p>6</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4</p> <p>1</p> <p>Reference to table 6.1.7 for Cell 1</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4</p> <p>2</p> |
|--|--|

| | |
|---|--|
| - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 3 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 7 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 8 |
| - Inter-frequency cell id - Frequency info | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| | |

Cell No.7

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.7 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0111B |
| URA identity | 0000 0000 0000 0100B |

Default settings for cell No.7 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 400 |

Contents of System Information Block type 11 for cell No.7 (FDD)

| | | |
|---|--------|--|
| - Intra-frequency measurement system information | A1, A3 | |
| | | |
| - New intra-frequency cells | | 7 |
| - Intra-frequency cell id | | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4 |
| - Cell info | | 1 |
| - Intra-frequency cell id | | |

| | | |
|---|-----------|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>A3</p> | <p>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info | <p>A1</p> | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Cell info <p>.....</p> | | <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

Default settings for cell No.7 (TDD)

| | |
|---|---|
| <ul style="list-style-type: none"> Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>123</p> |
|---|---|

Contents of System Information Block type 11 for cell No.7 (TDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id | <p>7</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4</p> <p>1</p> |
|--|--|

| | |
|---|---|
| - Cell info | Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 2 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 3 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 8 |
| - Cell info | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b |
| | |
| - Inter-frequency measurement system information | |
| | |
| - New inter-frequency cells | |
| - Inter frequency cell id | 4 |
| - Frequency info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Cell No.8

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.8 are identical to those of cell No.1 with the following exceptions:

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 1000B |
| URA identity | 0000 0000 0000 0100B |

Default settings for cell No.8 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | |
| PCCPCH/PCPICH carrier number | Minimum supported by the UE's power class. |
| Cell Channel Description | Reference clause 6.10 "Parameter Set" |
| - Primary CPICH info | |
| - Primary scrambling code | 450 |

Contents of System Information Block type 11 for cell No.8 (FDD)

| | | |
|---|--------|--|
| - Intra-frequency measurement system information | A1, A3 | |
| | | |
| - New intra-frequency cells | | |
| - Intra-frequency cell id | | 8 |
| - Cell info | | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | | 1 |

| | | |
|--|-----------|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>A3</p> | <p>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>A1</p> | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info <p>.....</p> | | <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

Default settings for cell No.8 (TDD)

| | |
|---|---|
| <ul style="list-style-type: none"> Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>127</p> |
|---|---|

Contents of System Information Block type 11 for cell No.8 (TDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id | <p>8</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4</p> <p>1</p> |
|--|--|

| | |
|---|---|
| - Cell info | Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 2 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 3 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 7 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b |
| | |
| - Inter-frequency measurement system information | |
| | |
| - New inter-frequency cells | |
| - Inter frequency cell id | 4 |
| - Frequency info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Cell No.9

Contents of System Information for cell No.9 (GSM)

See 3GPP TS 51.010-1 [31], clause 10.1.2.

Default settings for cell No.9 (GSM)

See table 6.1.10.

Cell No.10

Contents of System Information for cell No.10 (GSM)

See 3GPP TS 51.010-1 [31], clause 10.1.2.

Default settings for cell No.10 (GSM)

See table 6.1.10

Cell No.11

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.11 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 1011B |
| URA identity | 0000 0000 0000 0010B |

Default settings for cell No.11 (FDD)

| | |
|----------------------|---------------------------------------|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
|----------------------|---------------------------------------|

| | |
|--|--|
| Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 500 |
|--|--|

Contents of System Information Block type 11 for cell No.11 (FDD)

| | | |
|--|----|--|
| - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | A3 | 11 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4 1 Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b |
|--|----|--|

| Condition | Explanation |
|-----------|--|
| A1 | FDD cell environment |
| A2 | FDD/GSM inter-RAT cell environment |
| A3 | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

6.1.4.1 Default Cell parameters Two PLMN in UTRAN test scenario

In this scenario two cell groups belong to two different PLMN, Cell 1, 2, 3, 7, 8 (for PLMN1) and Cell 4,5,6 (for PLMN2) shall be configured on two different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in clause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3, 7, 8 contains cell No.1, 2, 3, 7, 8 in Intra-frequency measurement system information, and cell No.4, 5, 6 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4,5,6 contains cell No.4,5,6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to clause 6.1.4.

Contents of System Information Block type 18 for cell No.1, 2, 3, 7, 8

| | |
|--|---------------------------------|
| - Idle mode PLMN identities - PLMNs of intra-frequency cells list - PLMNs of inter-frequency cells list - PLMN identity | Not Present Set to PLMN2 |
|--|---------------------------------|

| | |
|----------------------------------|-------------|
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 18 for cell No.4, 5, 6

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | Not Present |
| - PLMNs of intra-frequency cells list | |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity | |
| - PLMNs of inter-RAT cells list | |
| - Connected mode PLMN identities | Not present |

6.1.4.1a Default Cell parameters Two PLMN in UTRAN test scenario with cells on PLMN1 belonging to two different frequencies

In this scenario three cell groups belong to two different PLMN, Cell 1, 2, 3 (for PLMN1), Cell 4,5,6 (for PLMN1) and Cell 7,8 (for PLMN2) shall be configured on three different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in clause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3 contains cell No.1, 2, 3 in Intra-frequency measurement system information, and cell No.4, 5, 6, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4, 5, 6 contains cell No. 4, 5, 6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No. 7, 8 contains cell No. 7, 8 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 4, 5, 6 in Inter-frequency measurement system information
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to clause 6.1.4.

Contents of System Information Block type 18 for cell No.1, 2, 3, 4, 5, 6

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | Not Present |
| - PLMNs of intra-frequency cells list | |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity | |
| - PLMN identity | |
| - PLMN identity | Set to PLMN2 |
| - PLMN identity | |
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 18 for cell No.7, 8

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | Not Present |
| - PLMNs of intra-frequency cells list | |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity | |
| - PLMNs of inter-RAT cells list | |
| - Connected mode PLMN identities | Not present |

6.1.4.2 Default Cell parameters Three PLMN in UTRAN test scenario

In this scenario three cell groups belong to three different PLMN, Cell 1, 2, 3 (for PLMN1), Cell 4, 5, 6 (for PLMN2) and Cell 7, 8 (for PLMN3) shall be configured on three different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in clause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3 contains cell No.1, 2, 3 in Intra-frequency measurement system information, and cell No.4, 5, 6, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4, 5, 6 contains cell No. 4, 5, 6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No. 7, 8 contains cell No. 7, 8 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 4, 5, 6 in Inter-frequency measurement system information.
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to clause 6.1.4.

Contents of System Information Block type 18 for cell No.1, 2, 3

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | |
| - PLMNs of intra-frequency cells list | Not Present |
| - PLMNs of inter-frequency cells list | |
| - PLMN identity | Set to PLMN2 |
| - PLMN identity | Set to PLMN2 |
| - PLMN identity | Set to PLMN2 |
| - PLMN identity | Set to PLMN3 |
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 18 for cell No.4, 5, 6

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | |
| - PLMNs of intra-frequency cells list | Not Present |
| - PLMNs of inter-frequency cells list | |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN3 |
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 18 for cell No.7, 8

| | |
|---------------------------------------|--------------|
| - Idle mode PLMN identities | |
| - PLMNs of intra-frequency cells list | Not Present |
| - PLMNs of inter-frequency cells list | |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN1 |
| - PLMN identity | Set to PLMN2 |
| - PLMNs of inter-RAT cells list | Not present |
| - Connected mode PLMN identities | Not present |

6.1.4.3 Default Cell parameters for MBMS 21 to 28 cell environments

Cell No.21

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.21 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|------------------------------------|
| Cell identity | 000000000000000000000000000010101B |
|---------------|------------------------------------|

| | |
|--------------|----------------------|
| URA identity | 0000 0000 0000 0001B |
|--------------|----------------------|

Default settings for cell No.21 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 120 |

Contents of System Information Block type 11 for cell No.21 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 23 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 28 |
| - Cell info | Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 1 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 2 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 3 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 7 |

| | |
|--|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info <p>.....</p> | <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info <p>.....</p> | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |

Default settings for cell No.21 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 2 |
|---|---|

Contents of System Information Block type 11 for cell No.21 (TDD)

| | |
|--|---|
| - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info | 21 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 22 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 23 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 27 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 28 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 1 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.2 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
|--|---|

| | |
|---------------------------|--|
| - Cell info | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 25 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 26 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 4 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Cell No.22

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.22 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|--------------------------------|
| Cell identity | 00000000000000000000000010110B |
| URA identity | 0000 0000 0000 0001B |

Default settings for cell No.22 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 170 |

Contents of System Information Block type 11 for cell No.22 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |

| | |
|--|--|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info <p>.....</p> | <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3</p> <p>23</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3</p> <p>27</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3</p> <p>28</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 4 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Default settings for cell No.22 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 6 |
|---|---|

Contents of System Information Block type 11 for cell No.22 (TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 23 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |

| | |
|---|---|
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>28 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>1 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.2</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> | |
| <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info | <p>24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>25 Not present Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>26 Not present Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>4 Not present Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>5 Not present Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>6 Not present Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> | |

Cell No.23

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.23 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|------------------------------|
| Cell identity | 000000000000000000000010111B |
| URA identity | 0000 0000 0000 0010B |

Default settings for cell No.23 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 220 |

Contents of System Information Block type 11 for cell No.23 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 23 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 28 |
| - Cell info | Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 3 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 1 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 2 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 7 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b |
| - Intra-frequency cell id | 8 |
| - Cell info | Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b |
| | |

| | |
|---|--|
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <p>- Cell info</p> | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>.....</p> |
|---|--|

Default settings for cell No.23 (TDD)

| | |
|---|---|
| <p>Downlink input level</p> <p>Uplink output power</p> <p>PCCPCH/PCPICH carrier number</p> <p>Cell Channel Description</p> <ul style="list-style-type: none"> - Primary CCPCH info - Cell parameters ID | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>10</p> |
|---|---|

Contents of System Information Block type 11 for cell No.23 (TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> | |
|--|--|

| | |
|---|--|
| <p>.....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info | <p>23</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>21</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>22</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>27</p> <p>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>28</p> <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Cell info | <p>Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>25</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3</p> |

| | |
|---------------------------|--|
| - Inter frequency cell id | 26 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 4 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Cell No.24

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.24 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|--|
| Cell identity | 0000000000000000000000000000000011000B |
| URA identity | 0000 0000 0000 0010B |

Default settings for cell No.24 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 270 |

Contents of System Information Block type 11 for cell No.24 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 24 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 25 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 26 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 4 |

| | |
|---|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4</p> <p>22</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4</p> <p>23</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4</p> <p>27</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4</p> <p>28</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| .. | |

Default settings for cell No.24 (TDD)

| | |
|---|--|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 14 |
|---|--|

Contents of System Information Block type 11 for cell No.24 (TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>24</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3</p> <p>25</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3</p> <p>26</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4.3</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4.3</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4.3</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3</p> <p>22</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3</p> <p>23</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3</p> <p>27</p> <p>Not present</p> |

| | |
|---------------------------|--|
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 28 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 1 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| | |

Cell No.25

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.25 are identical to those of cell No.4 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1001B |
| URA identity | 0000 0000 0000 0011B |

Default settings for cell No.25 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 320 |

Contents of System Information Block type 11 for cell No.25 (FDD)

| | |
|---|---|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <p>.....</p> | <p>25</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4.3</p> <p>24</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4.3</p> <p>26</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4.3</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info <ul style="list-style-type: none"> - Cell info <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4</p> <p>22</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4</p> <p>23</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 27 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 28 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |

| | |
|------------------|---|
| - Frequency info | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| .. | |

Default settings for cell No.25 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 116 |
|---|---|

Contents of System Information Block type 11 for cell No.25 (TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | 25 |
| - Intra-frequency cell id | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Cell info | |
| - Intra-frequency cell id | 24 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 26 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 4 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 5 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 6 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4 |
| | |
| - Inter-frequency measurement system information | |
| | |
| - New inter-frequency cells | 21 |
| - Inter frequency cell id | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Frequency info | |

| | |
|---------------------------|--|
| - Cell info | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 22 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 23 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 27 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 28 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 1 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |

| | |
|-------|--|
| | |
|-------|--|

Cell No.26

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.26 are identical to those of cell No.4 with the following exceptions:

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1010B |
| URA identity | 0000 0000 0000 0011B |

Default settings for cell No.26 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6 Parameter Set |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 370 |

Contents of System Information Block type 11 for cell No.26 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | 26 |
| - Intra-frequency cell id | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4.3 |
| - Cell info | |
| - Intra-frequency cell id | 24 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 25 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 6 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 4 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 5 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4 |
| | |
| - Inter-frequency measurement system information | |
| | |
| - New inter-frequency cells | 21 |
| - Inter frequency cell id | |

| | |
|---------------------------|---|
| - Frequency info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 22 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 23 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 27 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 28 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3 |

| | |
|---------------------------|---|
| - Frequency info | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |
| - Frequency info | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| .. | |

Default settings for cell No.26 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 121 |
|---|---|

Contents of System Information Block type 11 for cell No.26 (TDD)

| | |
|--|--|
| - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info | 26 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id - Cell info | 24 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id - Cell info | 25 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 4 |

| | |
|--|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4.5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4.6</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4</p> |
| <p>.....</p> <p>- Inter-frequency measurement system information</p> <p>.....</p> | |
| <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>22</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>23</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>27</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>28</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>1</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>2</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4</p> |

| | |
|---------------------------|---|
| - Inter frequency cell id | 3 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| | |

Cell No.27

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.27 are identical to those of cell No.1 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1011B |
| URA identity | 0000 0000 0000 0100B |

Default settings for cell No.27 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 420 |

Contents of System Information Block type 11 for cell No.27 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 23 |

| | |
|--|--|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info <p>.....</p> | <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3</p> <p>28</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
| <p>- Inter-frequency measurement system information</p> <p>.....</p> <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 4 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Not present |
| | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

Default settings for cell No.27 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 125 |
|---|---|

Contents of System Information Block type 11 for cell No.27 (TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 23 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |

| | |
|---|---|
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>28 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>1 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.2</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>..... - Inter-frequency measurement system information</p> | |
| <ul style="list-style-type: none"> - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info | <p>24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>25 Not present Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>26 Not present Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>4 Not present Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>5 Not present Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <ul style="list-style-type: none"> - Inter frequency cell id - Frequency info - Cell info | <p>6 Not present Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> | |

Cell No.28

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.28 are identical to those of cell No.1 with the following exceptions:

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1000B |
| URA identity | 0000 0000 0000 0100B |

Default settings for cell No.28 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 470 |

Contents of System Information Block type 11 for cell No.28 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 28 |
| - Cell info | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 21 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 22 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 23 |
| - Cell info | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 27 |
| - Cell info | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id | 8 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 1 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 2 |
| - Cell info | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id | 3 |

| | |
|--|---|
| <ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info | <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |

Default settings for cell No.28 (TDD)

| | |
|---|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 129 |
|---|---|

Contents of System Information Block type 11 for cell No.28 (TDD)

| | |
|--|--|
| - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info | 28 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 21 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 22 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 23 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 27 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27(TDD)" in clause 6.1.4.3 1 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.2 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
|--|--|

| | |
|---------------------------|--|
| - Cell info | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 25 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 26 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 4 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 5 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b |
| - Inter frequency cell id | 6 |
| - Frequency info | Not present |
| - Cell info | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
| | |

6.1.4.4 Default Cell parameters for MBSFN 31 to 38 cell environments

Cell No.31

Default settings for cell No.31 (TDD)

| | |
|------------------------------|------------------------|
| Downlink input level | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 1 |

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 128 |

Default settings for cell No.31 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 120 |

Contents of System Information Block type 3 for cell No.31 (FDD, TDD)

| Information Element | Value/remark | Version |
|---|---|---------|
| - SIB4 Indicator | FALSE | |
| - Cell identity | 0000 0000 0000 0000 0000 0001 1111B | |
| - Cell selection and re-selection info | | |
| - Mapping info | Not present | |
| - Cell selection and reselection quality measure | CPICH RSCP | |
| - CHOICE <i>mode</i> | TDD | |
| - Sintrasearch | Not present | |
| - Sintersearch | Not present | |
| - SsearchHCS | Not present | |
| - RAT List | Not present | |
| - Qrxlevmin | -103 (dBm) | |
| - DeltaQrxlevmin | Not Present | |
| - Qhyst1s | 1 (dB = value*2 (step size)) | |
| - Qhyst1s,PCH | Not Present | |
| - Qhyst1s,FACH | Not Present | |
| - Qhyst2s | Not Present | |
| - Qhyst2s,PCH | Not Present | |
| - Qhyst2s,FACH | Not Present | |
| - Treselections | 1 (second) | |
| - Treselections,PCH | Not Present | |
| - Treselections,FACH | Not Present | |
| - Speed dependent ScalingFactor for Treselection | Not Present | |
| - Inter-frequency ScalingFactor for Treselection | Not Present | |
| - Inter-RAT ScalingFactor for Treselection | Not Present | |
| - Non-HCS_TCRmax | Not Present (MD, default = 'not used') | |
| - Non-HCS_NCR | Not Present (MD) | |
| - Non-HCS_TCRmaxHyst | Not Present | |
| - HCS Serving cell information | Not present | |
| - Maximum allowed UL TX power | 1 (dBm) | |
| - Cell Access Restriction | | |
| - Cell barred | barred | |
| - Intra-frequency cell re-selection indicator | not allowed | |
| - T _{barred} | 1280 | |
| - Cell Reserved for operator use | not reserved | |
| - Cell Reservation Extension | not reserved | |
| - Access Class Barred List | Not Present (MD - no access class barred) | |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB | Not Present | REL-6 |
| - Domain Specific Access Restriction For Shared Network | Not Present | REL-6 |
| - Deferred measurement control UTRAN support | Not Present | REL-7 |
| - MBSFN only service | true | REL-7 |

Contents of System Information Block type 3 for cell No.31 (3.84 Mcps TDD IMB)

| Information Element | Value/remark | Version |
|---|-------------------------------------|---------|
| -SIB4 Indicator | FALSE | |
| -Cell identity | 0000 0000 0000 0000 0000 0001 1111B | |
| -Cell selection and re-selection info | | |
| -Mapping Info | Not present | |
| -Cell selection and reselection quality measure | CPICH RSCP | |
| -choice mode | FDD | |
| -Sintrasearch | Not present | |
| -Sintersearch | Not present | |
| -SsearchHCS | Not present | |
| -RAT List | Not present | |
| -Qqualmin | Reference to Table 6.1.6.1 | |
| -Qrxlevmin | Reference to Table 6.1.6.1 | |
| -DeltaQrxlevmin | Not present | |
| -Qhyst1s | 1 (2 dB) | |
| -Qhyst2s | Not present | |

| | | |
|---|--|-------|
| -Treselection _s | 1 seconds | |
| -Speed dependent ScalingFactor for Treselection | Not present | REL-5 |
| -Inter-frequency ScalingFactor for Treselection | Not present | REL-5 |
| -Inter-RAT ScalingFactor for Treselection | Not present | REL-5 |
| -Non-HCS_TCR _{max} | Not used | REL-5 |
| -HCS Serving cell Information | Not present | REL-5 |
| -Maximum allowed UL TX power | 1 (dBm) | |
| -Cell Access Restriction | | |
| -Cell Barred | barred | |
| -Intra-frequency cell re-selection indicator | Not-allowed | |
| -T _{barred} | 1280 | |
| -Cell Reserved for operator use | Not reserved | |
| -Cell Reservation Extension | Not reserved | |
| -Access Class Barred list | Not present (MD- no access class barred) | |
| -Domain Specific Access Restriction Parameters For PLMN Of MIB | Not present | REL-6 |
| -Domain Specific Access Restriction For Shared Network | Not present | |
| -Deferred measurement control reading | Not present | REL-6 |
| -MBSFN only service | TRUE | REL-7 |
| -Paging Permission with Access Control Parameters For PLMN Of MIB | Not present | REL-8 |
| -Paging Permission with Access Control For Shared Network | Not present | REL-8 |
| -CSG Identity | Not present | REL-8 |
| -CSG PSC Split Information | Not present | REL-8 |

Contents of System Information Block type 5 for cell No.31 (FDD)

FFS

Contents of System Information Block type 5 for cell No.31 (3.84 Mcps TDD)

| | |
|--|---------------------------|
| - SIB6 indicator | FALSE |
| - PICH Power offset | 0 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PUSCH system information VHCR | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Alpha | Not present |
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | Not present |
| - UE positioning related parameters | Not Present |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE <i>mode</i> | TDD |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List | |
| - CHOICE SF | SF8 |
| - Channelisation Code List | |
| - Channelisation Code | 8/1 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | 16 |
| - Number of TBs and TTI List | |
| - Number of Transport blocks | 0 |

| | |
|---|---|
| - CHOICE <i>mode</i> | TDD |
| - Transmission Time Interval | Not Present |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | 10 |
| - Transmission time interval | No coding |
| - Type of channel coding | Not Present |
| - Coding Rate | 1 |
| - Rate matching attribute | 0 |
| - CRC size | Not present |
| - Additional RACH TFS for CCCH | Not present |
| - RACH TFCS | Not present |
| - Additional RACH TFCS for CCCH | Not present |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Settings | Not Present (Default all) |
| - Persistence scaling factors | Not Present |
| - AC-to-ASC mapping | |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE <i>mode</i> | TDD (no data) |
| - Secondary CCPCH system information | (MP - but treated as if not received by UE) |
| - Secondary CCPCH system information list | (MP - but treated as if not received by UE) |
| - Secondary CCPCH info | |
| - CHOICE <i>mode</i> | 3.84 Mcps TDD |
| - Offset | 0 |
| - Common timeslot info | |
| - 2 nd interleaving mode | Not Present (MD "Frame") |
| - TFCI coding | Not Present (MD) |
| - Puncturing limit | 1.0 |
| - Repetition period | Not Present (MD "1") |
| - Repetition length | Not present (empty) |
| - Individual timeslot info | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | 1 |
| - TFCI existence | FALSE |
| - Midamble Shift and burst type | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - CHOICE <i>Burst Type</i> | MBSFN Burst Type |
| - no data | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - no data | |
| - Code List | |
| - Channelisation Code | 16/1 |
| - TFCS | (MP - but treated as if not received by UE) |
| -CHOICE <i>TFCI signalling</i> | Normal TFCI signalling |
| - TFCI Field 1 information | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration |
| - TFCS complete reconfiguration information | |
| - CHOICE <i>CTFC Size</i> | 2 bit CTFC |
| - CTFC information | |
| - 2 bit CTFC | 0 |
| - Power offset information | Not Present |
| - FACH/PCH information list | (MP - but treated as if not received by UE) |
| - TFS | |
| - CHOICE <i>Transport channel type</i> | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 16 |
| - Number of TBs and TTI List | |
| - Number of Transport blocks | 0 |
| - CHOICE <i>mode</i> | TDD |
| - Transmission Time Interval | 10 |
| - CHOICE <i>Logical Channel List</i> | ALL |

| | |
|---|--|
| <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - MCCH configuration information - CBS DRX Level 1 information - Frequency band indicator - Frequency band indicator 2 - HSDPA cell Indicator - E-DCH cell Indicator | <ul style="list-style-type: none"> 10 No coding Not Present 1 0 1 FALSE Not Present Not Present Not Present Not Present Not Present Not Present (Default 'HSDPA capability not indicated') Not Present (Default 'E-DCH capability not indicated') |
| <ul style="list-style-type: none"> - Secondary CCPCH system information MBMS - Secondary CCPCH system information - Secondary CCPCH info MBMS - CHOICE <i>mode</i> - Common timeslot info MBMS - 2nd interleaving mode - TFCI coding - Puncturing limit - Downlink Timeslots and Codes - First Individual timeslot info - Timeslot number - CHOICE <i>TDD option</i> - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> - CHOICE <i>Burst Type</i> - no data - CHOICE <i>TDD option</i> - no data - First timeslot channelisation codes - CHOICE <i>codes representation</i> - CHOICE <i>more timeslots</i> - no data - Modulation | <ul style="list-style-type: none"> 3.84 Mcps TDD Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 3.84 Mcps TDD 0 Reference clause 6.10 "Parameter Set" 3.84 Mcps TDD MBSFN Burst Type 3.84 Mcps TDD Reference clause 5.5.2 "Downlink physical channels code allocation for Signalling" No more timeslots QPSK |
| <ul style="list-style-type: none"> - TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information | <ul style="list-style-type: none"> Normal TFCI signalling Complete reconfiguration 2 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present |
| <ul style="list-style-type: none"> - FACH carrying MCCH - TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport Format Information - RLC Size - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval | <ul style="list-style-type: none"> Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present |

| | |
|--|---|
| - CHOICE <i>Logical Channel List</i> | ALL |
| - no data | |
| - Semi-static Transport Format information | Reference clause 6.10 "Parameter Set" |
| - Transmission time interval | Turbo |
| - Type of channel coding | Not Present |
| - Coding Rate | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute | Reference clause 6.10 "Parameter Set" |
| - CRC size | |
| - MCCH configuration information | |
| - Access Info Period coefficient | Reference clause 11.1.1 "MCCH configuration parameters" |
| - Repetition Period coefficient | Reference clause 11.1.1 "MCCH configuration parameters" |
| - Modification period coefficient | Reference clause 11.1.1 "MCCH configuration parameters" |
| - RLC info | |
| - DL UM RLC LI size | 7 |
| - DL Duplication Avoidance and Reordering info | Not Present |
| - DL Out of sequence delivery info | |
| - Timer_OSD | Not Present |
| - Window size OSD | 48 |
| - TCTF presence | false |
| - FACH carrying MTCH list | Not Present |
| - Scheduling information | Not Present |
| - CHOICE <i>mode</i> | TDD |
| - no data | |
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 1 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 5 for cell No.31 (3.84 Mcps TDD IMB)

| Information Element | Value/remark | Version |
|--|---|---------|
| - SIB6 indicator | FALSE | |
| - PICH Power offset | -5 dB (MP-but treated as if not received by UE) | |
| - CHOICE Mode | FDD | |
| - AICH Power offset | -5 dB (MP-but treated as if not received by UE) | |
| - Primary CCPCH info | Not present | |
| - PRACH system information list | (MP-but treated as if not received by UE) | |
| - PRACH system information | | |
| - PRACH info | | |
| - CHOICE mode | FDD | |
| - Available Signature | '0000 0000 1111 1111'B | |
| - Available SF | 64 | |
| - Preamble scrambling code number | 0 | |
| - Puncturing Limit | 1.00 | |
| - Available Sub Channel number | '1111 1111 1111'B | |
| - Transport channel Identity | 15 | |
| - RACH TFS | | |
| - CHOICE Transport channel type | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC size | 168 | |
| - Number of TB and TTI List | | |
| - Number of Transport blocks | 1 | |

| | | |
|---|--|-------|
| - CHOICE Mode | FDD | |
| - CHOICE Logical channel List | ALL | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | 20 ms | |
| - Type of channel coding | Turbo | |
| - Rate matching attribute | 150 | |
| - CRC size | 16 | |
| - Additional RACH TFS for CCCH | Not present | Rel6 |
| - RACH TFCS | | |
| - CHOICE TFCI signalling | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE TFCS representation | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | 2 bit CTFC | |
| - CTFC information | 0 | |
| - 2bit CTFC | 0 | |
| - Power offset information | Not present | |
| - CTFC information | 1 | |
| - 2bit CTFC | 1 | |
| - Power offset information | Not present | |
| - CTFC information | 2 | |
| - 2bit CTFC | 2 | |
| - Power offset information | Not present | |
| - CTFC information | 3 | |
| - 2bit CTFC | 3 | |
| - Power offset information | Not present | |
| - Additional RACH TFCS for CCCH | Not present | Rel-6 |
| - PRACH partitioning | | |
| - Access Service Class | | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#1) | |
| - Available signature End Index | 7 (ASC#1) | |
| - Assigned Sub-Channel Number | '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#3) | |
| - Available signature End Index | 7 (ASC#3) | |
| - Assigned Sub-Channel Number | '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#5) | |
| - Available signature End Index | 7 (ASC#5) | |
| - Assigned Sub-Channel Number | '1111'B | |

| | | |
|---|--|--|
| | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |
| - ASC Setting | | |
| - CHOICE mode | FDD | |
| - Available signature Start Index | 0 (ASC#7) | |
| - Available signature End Index | 7 (ASC#7) | |
| - Assigned Sub-Channel Number | '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. | |
| - Persistence scaling factor | Not present | |
| - AC-to-ASC mapping table | | |
| - AC-to-ASC mapping | 6 (AC0-9) | |
| - AC-to-ASC mapping | 5 (AC10) | |
| - AC-to-ASC mapping | 4 (AC11) | |
| - AC-to-ASC mapping | 3 (AC12) | |
| - AC-to-ASC mapping | 2 (AC13) | |
| - AC-to-ASC mapping | 1 (AC14) | |
| - AC-to-ASC mapping | 0 (AC15) | |
| - CHOICE mode | FDD | |
| - Primary CPICH TX power | 31 | |
| - Constant value | -10 | |
| - PRACH power offset | | |
| - Power Ramp Step | 3dB | |
| - Preamble Retrans Max | 4 | |
| - RACH transmission parameters | | |
| - Mmax | 2 | |
| - NB01min | 3 slot | |
| - NB01max | 10 slot | |
| - AICH info | | |
| - Channelisation code | 3 | |
| - STTD indicator | FALSE | |
| - AICH transmission timing | 0 | |
| Common E-DCH system info | Not present | |
| Secondary CCPCH system information | (MP-but treated as if not received by UE) | |
| Secondary CCPCH system information list | | |
| - Secondary CCPCH info | | |
| - CHOICE mode | FDD | |
| - Secondary scrambling code | Not Present | |
| - STTD indicator | FALSE | |
| - Spreading factor | 64 | |
| - Code number | 1 | |
| - Pilot symbol existence | FALSE | |
| - TFCI existence | TRUE (default value) | |
| - Fixed or Flexible position | Flexible (default value) | |
| - Timing offset | Not Present Absence of this IE is equivalent to default value 0 | |
| - TFCS | (This IE is repeated for TFC number for PCH and FACH.) | |
| - CHOICE TFCI signalling | Normal | |

| | | |
|---|---|-------|
| - TFCI Field 1 information | | |
| - CHOICE TFCS representation | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | 2 bit CTFC | |
| - CTFC information | 0 | |
| -2 bit CTFC | 0 | |
| - Power offset information | Not Present | |
| - CTFC information | 1 | |
| -2 bit CTFC | 1 | |
| - Power offset information | Not Present | |
| - CTFC information | 2 | |
| -2 bit CTFC | 2 | |
| - Power offset information | Not Present | |
| - CTFC information | 3 | |
| -2 bit CTFC | 3 | |
| - Power offset information | Not Present | |
| - FACH/PCH information | | |
| - TFS | (FACH) | |
| - CHOICE Transport channel type | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | 168 | |
| - Number of TB and TTI List | | |
| - Number of Transport blocks | 0 | |
| - Number of Transport blocks | 1 | |
| - Number of Transport blocks | 2 | |
| - CHOICE Logical channel List | ALL | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | 10 ms | |
| - Type of channel coding | Convolutional | |
| - Coding Rate | 1/2 | |
| - Rate matching attribute | 220 | |
| - CRC size | 16 bit | |
| - Transport channel Identity | 13 (for FACH) | |
| - CTCH indicator | FALSE | |
| - PICH info | Not Present | |
| - MCCH configuration information | Not Present | Rel-6 |
| - CBS DRX Level 1 information | Not Present | |
| - Frequency Band Indicator | Not Present | |
| - Frequency Band Indicator 2 | Not Present | |
| HSDPA cell Indicator | Not Present (MD- default is "HSDPA capability not indicated") | |
| E-DCH cell Indicator | Not Present (MD- default is "E-DCH capability not indicated") | |
| - Secondary CCPCH system information MBMS | | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE Mode | 3.84 Mcps TDD MBSFN IMB | Rel-8 |
| - Secondary scrambling code | Not Present | Rel-8 |
| - STTD indicator | FALSE | Rel-8 |
| - Spreading factor | 256 | Rel-8 |
| - Code number | 2 | Rel-8 |
| - Timing Offset | Not present (MD) | Rel-8 |
| - CHOICE Modulation | QPSK | Rel-8 |

| | | |
|---|---|--|
| - TFCS | | |
| - CHOICE TFCSI signalling | Normal | |
| - TFCSI Field 1 information | | |
| - CHOICE TFCS representation | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | 2 bit CTFC | |
| - CTFC information | 0 | |
| - 2 bit CTFC | 0 | |
| - Power offset information | Not Present | |
| - CTFC information | 1 | |
| - 2 bit CTFC | 1 | |
| - Power offset information | Not Present | |
| - CTFC information | 2 | |
| - 2 bit CTFC | 2 | |
| - Power offset information | Not Present | |
| - CTFC information | 3 | |
| - 2 bit CTFC | 3 | |
| - Power offset information | Not Present | |
| - FACH carrying MCCH | | |
| - TFS | | |
| - CHOICE Transport channel type | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - Number of TB and TTI List | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - Number of Transport blocks | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - Number of Transport blocks | remove | |
| - CHOICE Logical channel List | ALL | |
| - no data | | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - Type of channel coding | turbo | |
| - Coding Rate | not present | |
| - Rate matching attribute | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - CRC size | Reference clause 6.11.7 " Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB" | |
| - MCCH configuration information | | |

| | | |
|--|---|-------|
| - Access Info Period coefficient | Reference to clause 11.2.1 "MCCH configuration parameters" | |
| - Repetition Period coefficient | Reference to clause 11.2.1 "MCCH configuration parameters" | |
| - Modification period coefficient | Reference to clause 11.2.1 "MCCH configuration parameters" | |
| - RLC info MBMS | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| - DL Out of sequence delivery info | | |
| - Timer_OSD | Not Present | |
| - Window size OSD | 48 | |
| - TCTF presence | FALSE | |
| - FACH carrying MTCH list | Not Present | |
| - Scheduling information | Not Present | |
| - CHOICE Mode | FDD | Rel-7 |
| - HS-DSCH common system information | (MP-but treated as if not received by UE) | Rel-7 |
| - CCCH mapping info | | |
| - Logical channel identity | 5 | |
| - MAC-ehs queue identity | 1 | |
| - SRB1 mapping info | Not Present | |
| - Common MAC-ehs reordering queue list | | |
| - MAC-ehs queue to configure list | Configure 2 queues | |
| - MAC-ehs queue Id | 0 | |
| - T1 | 50ms | |
| - Treset | Not Present | |
| - MAC-ehs window size | 16 | |
| - MAC-ehs queue Id | 1 | |
| - T1 | 50ms | |
| - Treset | Not Present | |
| - MAC-ehs window size | 16 | |
| - HS-SCCH system info | | |
| - DL Scrambling Code | Not Present | |
| - HS-SCCH Channelisation Code Information | Use 1 HS-SCCH | |
| - HS-SCCH Channelisation Code | 7 | |
| - HARQ system Info | | |
| - Number of Processes | 1 | |
| - CHOICE <i>Memory Partitioning</i> | Implicit | |
| - Common H-RNTI Information | Use 4 | |
| - Common H-RNTI | '1111 1010 1010 1010' | |
| - Common H-RNTI | '1111 1010 1010 1011' | |
| - Common H-RNTI | '1111 1010 1010 1100' | |
| - Common H-RNTI | '1111 1010 1010 1110' | |
| - BCCH specific H-RNTI | '1111 1010 1110 1010' | |
| - HS-DSCH paging system information | Not Present | Rel-7 |
| TDD MBSFN information | not present | Rel-7 |
| HS-DSCH DRX in CELL_FACH Information | not present | Rel-8 |
| HS-DSCH DRX in CELL_FACH Information 1.28 Mcps TDD | not present | Rel-8 |
| | | |

Contents of System Information Block type 5 for cell No.31 (1.28 Mcps TDD)

| | |
|--|---|
| - SIB6 indicator | FALSE |
| - PICH Power offset | 0 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PUSCH system information VHCR | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | (MP - but treated as if not received by UE) |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | (MP - but treated as if not received by UE) |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE <i>mode</i> | TDD |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - SYNC_UL info | |
| - SYNC_UL codes bitmap | "11111111" |
| - UL Target SIR | 10 dB |
| - Power Ramping Step | 3 dB |
| - Max SYNC_UL Transmissions | 8 |
| - Mmax | 32 |
| - PRACH definition | |
| - Timeslot number | |
| - CHOICE TDD option | 1.28 Mcps TDD |
| - Timeslot number | 1 |
| - PRACH Channelisation Code | |
| - Channelisation Code List | |
| - Channelisation Code | (8/1) |
| - Midamble Shift and burst type | |
| - CHOICE TDD option | 1.28 Mcps TDD |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration | 8 |
| - Midamble Shift | Not present |
| - FPACH info | |
| - Timeslot number | 6 |
| - Channelisation code | (16/16) |
| - Midamble Shift and burst type | |
| - CHOICE TDD option | 1.28 Mcps TDD |
| - Midamble Allocation Mode | Common Midamble |
| - Midamble configuration | 8 |
| - Midamble Shift | Not present |
| - WT | 4 |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | 16 |
| - Number of TBs and TTI List | |
| - Number of Transport blocks | 0 |
| - CHOICE <i>mode</i> | TDD |
| - Transmission Time Interval | Not Present |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 |
| - Type of channel coding | No coding |
| - Coding Rate | Not Present |
| - Rate matching attribute | 1 |
| - CRC size | 0 |
| - Additional RACH TFS for CCCH | Not present |
| - RACH TFCS | Not present |
| - Additional RACH TFCS for CCCH | Not present |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Settings | Not Present (Default all) |
| - Persistence scaling factors | Not Present |

| | |
|---|--|
| - AC-to-ASC mapping | |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE <i>mode</i> | TDD (no data) |
| - Secondary CCPCH system information | (MP - but treated as if not received by UE) |
| - Secondary CCPCH system information list | (MP - but treated as if not received by UE) |
| - Secondary CCPCH info | |
| - CHOICE <i>mode</i> | 1.28 Mcps TDD or 3.84 Mcps TDD |
| - Offset | 0 |
| - Common timeslot info | |
| - 2 nd interleaving mode | Not Present (MD "Frame") |
| - TFCI coding | Not Present (MD) |
| - Puncturing limit | 1.0 |
| - Repetition period | Not Present (MD "1") |
| - Repetition length | Not present (empty) |
| - Individual timeslot info | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | 1 |
| - TFCI existence | FALSE |
| - Midamble Shift and burst type | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration | 16 |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Modulation | QPSK |
| - SS-TPC Symbols | 1 |
| - Code List | |
| - Channelisation Code | 16/1 |
| - TFCS | Not Present |
| - FACH/PCH information list | Not Present |
| - PICH info | Not Present |
| - MCCH configuration information | Not Present |
| - CBS DRX Level 1 information | Not Present |
| - Frequency band indicator | Not Present |
| - Frequency band indicator 2 | Not Present |
| - HSDPA cell Indicator | Not Present (Default 'HSDPA capability not indicated') |
| - E-DCH cell Indicator | Not Present (Default 'E-DCH capability not indicated') |
| - Secondary CCPCH system information MBMS | |
| - Secondary CCPCH system information | |
| - Secondary CCPCH info MBMS | |
| - CHOICE <i>mode</i> | 1.28 Mcps TDD |
| - Common timeslot info MBMS | |
| - 2 nd interleaving mode | Frame |
| - TFCI coding | Reference clause 6.11 "Parameter Set" |
| - Puncturing limit | Reference clause 6.11 "Parameter Set" |
| - Downlink Timeslots and Codes | |
| - First Individual timeslot info | |
| - Timeslot number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | 0 |
| - TFCI existence | FALSE |
| - Midamble Shift and burst type | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Midamble Allocation Mode | Default midamble |
| - Midamble configuration | 16 |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Modulation | QPSK |
| - SS-TPC Symbols | 1 |
| - First timeslot channelisation codes | |
| - CHOICE <i>codes representation</i> | Reference clause 5.5.2 "Downlink physical channels code allocation for Signalling" |
| - CHOICE <i>more timeslots</i> | No more timeslots |

| | |
|---|--|
| <ul style="list-style-type: none"> - no data - MBSFN Special Time Slot - Modulation | <p>TS7 QPSK</p> |
| <ul style="list-style-type: none"> - TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information | <p>Normal TFCI signalling</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p> <p>2</p> <p>Not Present</p> <p>3</p> <p>Not Present</p> |
| <ul style="list-style-type: none"> - FACH carrying MCCH - TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport Format Information - RLC Size - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval - CHOICE <i>Logical Channel List</i> - no data - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer_OSD - Window size OSD - TCTF presence - FACH carrying MTCH list - Scheduling information - CHOICE <i>mode</i> - no data - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | <p>Common transport channels</p> <p>Reference clause 6.11 "Parameter Set"</p> <p>Reference clause 6.11 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Not Present</p> <p>ALL</p> <p>Reference clause 6.11 "Parameter Set"</p> <p>Turbo</p> <p>Not Present</p> <p>Reference clause 6.11 "Parameter Set"</p> <p>Reference clause 6.11 "Parameter Set"</p> <p>Reference clause 11.1.1 "MCCH configuration parameters"</p> <p>Reference clause 11.1.1 "MCCH configuration parameters"</p> <p>Reference clause 11.1.1 "MCCH configuration parameters"</p> <p>7</p> <p>Not Present</p> <p>Not Present</p> <p>48</p> <p>FALSE</p> <p>Not Present</p> <p>Not Present</p> <p>TDD</p> <p>(This list describes all Timeslots (0...6) in the frame)</p> <p>1.28 Mcps TDD</p> <p>0</p> <p>1</p> <p>(Repeated for each Timeslot (1...6))</p> <p>1.28 Mcps TDD</p> <p>(1...6)</p> <p>5 (Repeated for each Timeslot (1...6))</p> |

Contents of System Information Block type 5 for cell No.31 (7.68 Mcps TDD)

| | |
|--|---|
| - SIB6 indicator | FALSE |
| - PICH Power offset | 0 dB |
| - CHOICE Mode | TDD |
| - PUSCH system information | Not Present |
| - PUSCH system information VHCR | Not Present |
| - PDSCH system information | Not Present |
| - TDD open loop power control | |
| - Primary CCPCH Tx Power | 30 dbm |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - Alpha | Not Present |
| - PRACH Constant Value | -10 |
| - DPCH Constant Value | -10 |
| - PUSCH Constant Value | Not Present |
| - UE positioning related parameters | Not Present |
| - Primary CCPCH info | Not Present |
| - PRACH system information list | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 7.68 Mcps TDD |
| - Timeslot number | 14 |
| - PRACH Channelisation Code List VHCR | |
| - CHOICE SF | SF16 |
| - Channelisation Code List | |
| - Channelisation Code | 16/1 |
| - PRACH Midamble | Direct |
| - PNBSCH allocation | Not Present |
| - Transport channel Identity | 15 |
| - RACH TFS | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC size | 16 |
| - Number of TBs and TTI List | |
| - Number of Transport blocks | 0 |
| - CHOICE Mode | TDD |
| - Transmission Time Interval | Not Present |
| - CHOICE Logical channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 10 |
| - Type of channel coding | No coding |
| - Coding Rate | Not Present |
| - Rate matching attribute | 1 |
| - CRC size | 0 |
| - Additional RACH TFS for CCCH | Not present |
| - RACH TFCS | Not present |
| - Additional RACH TFCS for CCCH | Not present |
| - Persistence scaling factors | Not Present |
| - AC-to-ASC mapping | |
| - AC-to-ASC mapping table | |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping | 5 (AC10) |
| - AC-to-ASC mapping | 4 (AC11) |
| - AC-to-ASC mapping | 3 (AC12) |
| - AC-to-ASC mapping | 2 (AC13) |
| - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - CHOICE mode | TDD (no data) |
| - Secondary CCPCH system information | (MP - but treated as if not received by UE) |
| - Secondary CCPCH system information list | (MP - but treated as if not received by UE) |
| - Secondary CCPCH info | |
| - CHOICE mode | 7.68 Mcps TDD |
| - Offset | 0 |
| - Common timeslot info | |
| - 2 nd interleaving mode | Not Present (MD "Frame") |
| - TFCI coding | Not Present (MD) |
| - Puncturing limit | 1.0 |
| - Repetition period | Not Present (MD "1") |
| - Repetition length | Not present (empty) |

| | |
|--|---|
| <ul style="list-style-type: none"> - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - CHOICE Burst Type - no data - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - no data - Code List <ul style="list-style-type: none"> - Channelisation Code - TFCS <ul style="list-style-type: none"> - CHOICE <i>TFCS signalling</i> <ul style="list-style-type: none"> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> <ul style="list-style-type: none"> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> <ul style="list-style-type: none"> - CTFC information - 2 bit CTFC - Power offset information - FACH/PCH information - TFS <ul style="list-style-type: none"> - CHOICE <i>Transport channel type</i> <ul style="list-style-type: none"> - Dynamic Transport format information - RLC Size | <p>7.68 Mcps TDD 1 FALSE</p> <p>7.68 Mcps TDD MBSFN Burst Type</p> <p>7.68 Mcps TDD</p> <p>32/1 (MP - but treated as if not received by UE) Normal TFCI signalling</p> <p>Complete reconfiguration</p> <p>2 bit CTFC</p> <p>0 Not Present (MP - but treated as if not received by UE) (PCH)</p> <p>Common transport channels</p> <p>16</p> |
| <ul style="list-style-type: none"> - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> <ul style="list-style-type: none"> - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - MCCH configuration information - CBS DRX Level 1 information - Frequency band indicator - Frequency band indicator 2 - HSDPA cell Indicator - E-DCH cell Indicator - Secondary CCPCH system information MBMS - Secondary CCPCH system information <ul style="list-style-type: none"> - Secondary CCPCH info MBMS <ul style="list-style-type: none"> - CHOICE <i>mode</i> <ul style="list-style-type: none"> - Common timeslot info MBMS <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing limit - Downlink Timeslots and Codes VHCR- <ul style="list-style-type: none"> - First Individual timeslot info <ul style="list-style-type: none"> - Timeslot number - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - CHOICE <i>Burst Type</i> <ul style="list-style-type: none"> - no data - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - no data - First timeslot channelisation codes VHCR <ul style="list-style-type: none"> - CHOICE <i>codes representation</i> | <p>0 TDD 10 ALL</p> <p>10 No coding Not Present</p> <p>1 0 1</p> <p>FALSE Not Present Not Present Not Present Not Present Not Present (Default 'HSDPA capability not indicated') Not Present (Default 'E-DCH capability not indicated')</p> <p>7.68 Mcps TDD</p> <p>Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD 0 Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD MBSFN Burst Type</p> <p>7.68 Mcps TDD</p> <p>Reference clause 5.5.2 "Downlink physical channels code"</p> |

| | |
|---|---|
| <ul style="list-style-type: none"> - CHOICE <i>more timeslots</i> - no data - Modulation | <p>allocation for Signalling" No more timeslots QPSK</p> |
| <ul style="list-style-type: none"> - TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information | <p>Normal TFCI signalling Complete reconfiguration 2 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present</p> |
| <ul style="list-style-type: none"> - FACH carrying MCCH - TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport Format Information - RLC Size - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval - CHOICE <i>Logical Channel List</i> - no data - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer_OSD - Window size OSD - TCTF presence - FACH carrying MTCH list - Scheduling information - CHOICE <i>mode</i> - no data - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | <p>Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present ALL Reference clause 6.10 "Parameter Set" Turbo Not Present Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" 7 Not Present Not Present 48 false Not Present Not Present TDD (This IE is repeated for all Timeslots (0...14) in the frame) 7.68 Mcps TDD 0 1 (Repeated for each Timeslot (1...14)) 7.68 Mcps TDD (1...14) 5 (Repeated for each Timeslot (1...14))</p> |

Contents of System Information Block type 11 for cell No.31 (FDD)

| | |
|---|---|
| <ul style="list-style-type: none"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE <i>intra-frequency cell removal</i> - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - Primary scrambling code - Primary CCPCH TX power - TX Diversity indicator - Cell Selection and Re-selection info | <p>FALSE Not Present</p> <p>Not used CPICH RSCP</p> <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD) Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present FALSE FDD</p> <p>Refer to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4</p> <p>Not Present FALSE Not Present (The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - Primary scrambling code - Primary CCPCH TX power - TX Diversity indicator - Cell Selection and Re-selection info | <p>32</p> <p>Not present (MD) Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present FALSE FDD</p> <p>Refer to clause titled "Default settings for cell No.32 (FDD)" in clause 6.1.4.4</p> <p>Not Present FALSE Not Present (The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>37</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4</p> <p>38</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Cells for measurement - Intra-frequency measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - MBSFN frequency list | <p>Not Present Not Present Not Present</p> <p>Not Present Not Present Not Present Not Present Not Present Not Present</p> |

Contents of System Information Block type 11 for cell No.31 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--|---|
| <ul style="list-style-type: none"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information | <p>FALSE Not Present</p> <p>Not used CPICH RSCP</p> |
|--|---|

| | |
|---|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE <i>intra-frequency cell removal</i> - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - CHOICE <i>SyncCase</i> - Cell parameters ID - SCTD indicator - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info | <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>3.84 and 7.68 Mcps TDD</p> <p>Not Present</p> <p>Refer to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>FALSE</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - CHOICE <i>SyncCase</i> - Cell parameters ID - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>32</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>3.84 and 7.68 Mcps TDD</p> <p>Not Present</p> <p>Refer to clause titled "Default settings for cell No.32 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>37</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>38</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Cells for measurement - Intra-frequency measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - MBSFN frequency list | <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> |

Contents of System Information Block type 11 for cell No.31 (3.84 Mcps TDD IMB)

| | |
|--|-------------|
| - SIB 12 Indicator | FALSE |
| - FACH measurement occasion info | Not Present |
| - Measurement control system information | |
| - Use of HCS | Not used |
| - Cell selection and reselection quality measureCell | CPICH RSCP |

| | |
|--|--------------|
| - Intra-frequency measurement system information | Not present |
| - Inter-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system information | Not Present |
| - MBSFN frequency list | Not Present- |

Contents of System Information Block type 11 for cell No.31 (1.28 Mcps TDD)

| | |
|---|---|
| <ul style="list-style-type: none"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE <i>intra-frequency cell removal</i> - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - TSTD indicator - Cell parameters ID - SCTD indicator - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info | <p>FALSE Not Present Not used CPICH RSCP Not Present Not present 31 Not present (MD) Not Present FALSE TDD TDD 1.28 Mcps TDD FALSE Refer to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 FALSE Not Present Not Present Not Present (The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - TSTD indicator - Cell parameters ID - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <p>32 Not present (MD) Not Present FALSE TDD TDD 1.28 Mcps TDD FALSE Refer to clause titled "Default settings for cell No.32 (1.28 Mcps TDD)" in clause 6.1.4.4 Not Present Not Present Not Present 37 Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4 38 Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Cells for measurement - Intra-frequency measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH | <p>Not Present Not Present Not Present Not Present</p> |

| | |
|--|-------------|
| - Reporting information for state CELL_DCH | Not Present |
| - Inter-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system information | Not Present |
| - MBSFN frequency list | Not Present |

Cell No.32

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.32 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0000B |
|---------------|-------------------------------------|

Default settings for cell No.32 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 170 |

Default settings for cell No.32 (TDD)

| | |
|------------------------------|------------------------|
| Downlink input level | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 9 |

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 256 |

Contents of System Information Block type 5 for cell No.32 (FDD)

FFS

Contents of System Information Block type 5 for cell No.32 (3.84 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 9 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 5 for cell No.32 (1.28 Mcps TDD)

| | |
|--------------------------------|--|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...6) in the frame) |
| - Timeslot Number | |

| | |
|----------------------------|--|
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 9 |
| - Timeslot Number | (Repeated for each Timeslot (1...6)) |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | (1...6) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...6)) |

Contents of System Information Block type 5 for cell No.32 (7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 9 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 11 for cell No.32 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.32 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |

| | |
|---------------------------|--|
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.32 (1.28 Mcps TDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4 |

Cell No.33

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.33 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0001B |
|---------------|-------------------------------------|

Default settings for cell No.33 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 220 |

Default settings for cell No.33 (TDD)

| | |
|------------------------------|------------------------|
| Downlink input level | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 126 |

Default settings for cell No.33 (3.84 Mcps TDD IMB)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 384 |

Contents of System Information Block type 5 for cell No.33 (FDD)

FFS

Contents of System Information Block type 5 for cell No.33 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 7 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 8 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 9 |

| | |
|----------------------------|---|
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 10 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 11 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 12 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 13 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 14 |
| - Cell parameters ID | 126 |

Contents of System Information Block type 5 for cell No.33 (1.28 Mcps TDD)

| | |
|--------------------------------|--------------------------------|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 126 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 126 |

Contents of System Information Block type 11 for cell No.33 (FDD)

| | |
|---|----|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 33 |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 34 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 35 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 36 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.33 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | 33 |
| - Intra-frequency cell id | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info | 34 |
| - Intra-frequency cell id | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info | 35 |
| - Intra-frequency cell id | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info | 36 |
| - Intra-frequency cell id | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info | |

Contents of System Information Block type 11 for cell No.33 (1.28 Mcps TDD)

| | |
|---|----|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | 33 |
| - Intra-frequency cell id | |

| | |
|---------------------------|---|
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 34 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 35 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 36 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4 |

Cell No.34

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.34 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0010B |
|---------------|-------------------------------------|

Default settings for cell No.34 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 270 |

Default settings for cell No.34 (TDD)

| | |
|------------------------------|------------------------|
| Downlink input level | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 118 |

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 512 |

Contents of System Information Block type 5 for cell No.34 (FDD)

FFS

Contents of System Information Block type 5 for cell No.34 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 7 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 8 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 9 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 10 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 11 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 12 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 13 |
| - Cell parameters ID | 118 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 14 |
| - Cell parameters ID | 118 |

Contents of System Information Block type 5 for cell No.34 (1.28 Mcps TDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | <ul style="list-style-type: none"> 1.28 Mcps TDD (as appropriate) 0 118 1.28 Mcps TDD (as appropriate) 1 122 1.28 Mcps TDD (as appropriate) 2 122 1.28 Mcps TDD (as appropriate) 3 122 1.28 Mcps TDD (as appropriate) 4 118 1.28 Mcps TDD (as appropriate) 5 118 1.28 Mcps TDD (as appropriate) 6 118 |
|--|--|

Contents of System Information Block type 11 for cell No.34 (FDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <ul style="list-style-type: none"> 34 Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4 33 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4 35 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 36 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 |
|--|--|

Contents of System Information Block type 11 for cell No.34 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information | |
|---|--|

| | |
|---|---|
| <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info | <p>34</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>36</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |

Contents of System Information Block type 11 for cell No.34 (1.28 Mcps TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info | <p>34</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>36</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |

Cell No.35

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.35 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0011B |
|---------------|-------------------------------------|

Default settings for cell No.35 (FDD)

| | |
|--|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 320 |
|--|---|

Default settings for cell No.35 (TDD)

| | |
|--|---|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6.1.6 Reference clause 5.1.2 110 |
|--|---|

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|---|---|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 640 |
|---|---|

Contents of System Information Block type 5 for cell No.35 (FDD)

FFS

Contents of System Information Block type 5 for cell No.35 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 7 |

| | |
|----------------------------|---|
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 8 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 9 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 10 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 11 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 12 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 13 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 14 |
| - Cell parameters ID | 110 |

Contents of System Information Block type 5 for cell No.35 (1.28 Mcps TDD)

| | |
|--------------------------------|--------------------------------|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 110 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 110 |

Contents of System Information Block type 11 for cell No.35 (FDD)

| | |
|--|---|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4</p> <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4</p> <p>34</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4</p> <p>36</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4</p> |
|--|---|

Contents of System Information Block type 11 for cell No.35 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--|---|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>34</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>36</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
|--|---|

Contents of System Information Block type 11 for cell No.35 (1.28 Mcps TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells | |
|--|--|

| | |
|--|---|
| - Intra-frequency cell id - Cell info | 35 Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id - Cell info | 33 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id - Cell info | 34 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id - Cell info | 36 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4 |

Cell No.36

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.36 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0100B |
|---------------|-------------------------------------|

Default settings for cell No.36 (FDD)

| | |
|--|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 370 |
|--|---|

Default settings for cell No.36 (TDD)

| | |
|--|---|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6.1.6 Reference clause 5.1.2 102 |
|--|---|

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|---|---|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 768 |
|---|---|

Contents of System Information Block type 5 for cell No.36 (FDD)

FFS

Contents of System Information Block type 5 for cell No.36 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 0 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 1 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 2 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 3 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 4 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 5 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 6 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 7 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 8 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 9 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 10 |
| - Cell parameters ID | 122 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 11 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 12 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 13 |
| - Cell parameters ID | 102 |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number | 14 |
| - Cell parameters ID | 102 |

Contents of System Information Block type 5 for cell No.36 (1.28 Mcps TDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | <ul style="list-style-type: none"> 1.28 Mcps TDD (as appropriate) 0 102 1.28 Mcps TDD (as appropriate) 1 122 1.28 Mcps TDD (as appropriate) 2 122 1.28 Mcps TDD (as appropriate) 3 122 1.28 Mcps TDD (as appropriate) 4 102 1.28 Mcps TDD (as appropriate) 5 102 1.28 Mcps TDD (as appropriate) 6 102 |
|--|--|

Contents of System Information Block type 11 for cell No.36 (FDD)

| | |
|--|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info | <ul style="list-style-type: none"> 36 Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 33 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4 34 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4 35 Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 |
|--|--|

Contents of System Information Block type 11 for cell No.36 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement system information | |
|---|--|

| | |
|---|---|
| <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info | <p>36</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>34</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |

Contents of System Information Block type 11 for cell No.36 (1.28 Mcps TDD)

| | |
|--|--|
| <p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info | <p>36</p> <p>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>33</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>34</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | <p>35</p> <p>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |

Cell No.37

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.37 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0101B |
|---------------|-------------------------------------|

Default settings for cell No.37 (FDD)

| | |
|--|---|
| Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 420 |
|--|---|

Default settings for cell No.37 (TDD)

| | |
|--|--|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID | Reference clause 6.1.6 Reference clause 5.1.2 17 |
|--|--|

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|---|---|
| Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 896 |
|---|---|

Contents of System Information Block type 5 for cell No.37 (FDD)

FFS

Contents of System Information Block type 5 for cell No.37 (3.84 Mcps TDD)

| | |
|--|--|
| - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | (This list describes all Timeslots (0...14) in the frame) 3.84 Mcps TDD 0 17 (Repeated for each Timeslot (1...14)) 3.84 Mcps TDD (1...14) 5 (Repeated for each Timeslot (1...14)) |
|--|--|

Contents of System Information Block type 5 for cell No.37 (1.28 Mcps TDD)

| | |
|--|--|
| - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID | (This list describes all Timeslots (0...6) in the frame) 1.28 Mcps TDD 0 17 (Repeated for each Timeslot (1...6)) 1.28 Mcps TDD (1...6) 5 (Repeated for each Timeslot (1...6)) |
|--|--|

Contents of System Information Block type 5 for cell No.37 (7.68 Mcps TDD)

| | |
|--|---|
| - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number | (This list describes all Timeslots (0...14) in the frame) 7.68 Mcps TDD 0 |
|--|---|

| | |
|----------------------------|---|
| - Cell parameters ID | 17 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 11 for cell No.37 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.37 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.37 (1.28 Mcps TDD)

| | |
|--|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 37 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 32 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4 |

Cell No.38

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.38 are identical to those of cell No.31 with the following exceptions.

| | |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0110B |
|---------------|-------------------------------------|

Default settings for cell No.38 (FDD)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
| Uplink output power | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set" |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 470 |

Default settings for cell No.38 (TDD)

| | |
|------------------------------|------------------------|
| Downlink input level | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CCPCH info | |
| - Cell parameters ID | 25 |

Default settings for cell No.31 (3.84 Mcps TDD IMB)

| | |
|------------------------------|--|
| Downlink input level | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description | |
| - Primary CPICH info | |
| - Primary scrambling code | 0 |

Contents of System Information Block type 5 for cell No.38 (FDD)

FFS

Contents of System Information Block type 5 for cell No.38 (3.84 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 25 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 5 for cell No.38 (1.28 Mcps TDD)

| | |
|--------------------------------|--|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...6) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 25 |
| - Timeslot Number | (Repeated for each Timeslot (1...6)) |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD |
| - Timeslot number | (1...6) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...6)) |

Contents of System Information Block type 5 for cell No.38 (7.68 Mcps TDD)

| | |
|--------------------------------|---|
| - TDD MBSFN information | |
| - Time slot list | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number | |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD |
| - Timeslot number | 0 |
| - Cell parameters ID | 25 |
| - Timeslot Number | (Repeated for each Timeslot (1...14)) |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD |
| - Timeslot number | (1...14) |
| - Cell parameters ID | 5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 11 for cell No.38 (FDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.38 (3.84 Mcps and 7.68 Mcps TDD)

| | |
|---|--|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.38 (1.28 Mcps TDD)

| | |
|---|---|
| - Intra-frequency measurement system information | |
| | |
| - New intra-frequency cells | |
| - Intra-frequency cell id | 38 |
| - Cell info | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 31 |
| - Cell info | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |

6.1.5 Reference Radio Conditions (FDD)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

Table 6.1.3 are the default settings for a non-suitable cell which is configured and always present whereas table 6.1.4 is for a cell that is switched off. Cells configured according to table 6.1.3 are for test cases in which it is necessary to make a cell unsuitable, and then subsequently make it suitable. This could be achieved by switching the cell off and then reconfiguration as in table 6.1.4, but this takes a lot of time to do.

Table 6.1.1: Default settings for a serving cell in a single cell environment

| Parameter | Unit | Cell 1/Cell 21 |
|---------------------------------|--------------|--------------------------|
| Cell type | | Serving cell |
| UTRA RF Channel Number (Note 3) | | Mid Range Test Frequency |
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| CPICH Ec (see notes 1 and 2) | dBm/3.84 MHz | -60 |

NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.
 NOTE 2: The cell fulfils 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.133 [30], clause 8.1.2.2.1.
 NOTE 3: The Test Frequencies are selected from the Tables in section 5.1.1 for the band under test.

Table 6.1.2: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter | Unit | Cell 1/Cell 21 | Cell 2/Cell 22 | Cell 4/Cell 24 |
|--|--------------|--------------------------|---|---|
| Cell type | | Serving cell | Suitable neighbour intra-frequency cell | Suitable neighbour inter-frequency cell |
| UTRA RF Channel Number (Note 3) | | Mid Range Test Frequency | Mid Range Test Frequency | High Range Test Frequency |
| Qqualmin | dB | -24 | -24 | |
| Qrxlevmin | dBm | -79 | -79 | |
| UE_TXPWR_MAX_RACH | dBm | 21 | 21 | |
| CPICH Ec (see notes 1 and 2) | dBm/3.84 MHz | -60 | -70 | |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. | | | | |
| NOTE 2: Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.133 [30], clause 8.1.2.2.1. | | | | |
| NOTE 3: The Test Frequencies are selected from the Tables in section 5.1.1 for the band(s) under test. For the test frequencies for low and high ranges for serving cell, the mid range is used for suitable neighbour of inter-frequency cell in SIB11. For Band VI the Low Range Test Frequencies are used for Cell 1 and Cell 2 because of the small bandwidth available. For FDD interband testing the Test Frequencies will be selected from different Bands. | | | | |

Table 6.1.3: Default settings for a non-suitable cell

| Parameter | Unit | Level |
|---|--------------|-------|
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| CPICH_Ec | dBm/3.84 MHz | -90 |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. | | |
| NOTE 2: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2. | | |

Table 6.1.4: Default settings for a non-suitable "Off" cell

| Parameter | Unit | Level |
|---|--------------|--------|
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| CPICH_Ec | dBm/3.84 MHz | ≤ -122 |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. | | |
| NOTE 2: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2. | | |

Table 6.1.5: Default power levels of physical channels relative to CPICH_Ec

| Parameter | Unit | Level | Level | Version |
|--|------|------------|-----------------|---------|
| | | Idle mode | Connected mode | |
| HS-SCCH_Ec | dB | +3 | | Rel-5 |
| HS-PDSCH_Ec | dB | +7 | | Rel-5 |
| DPCH_Ec | dB | (see note) | See table 6.1.6 | |
| PCCPCH_Ec | dB | -2 | | |
| SCCPCH_Ec | dB | -2 | | |
| AICH_Ec | dB | -5 | | |
| SCH_Ec | dB | -5 | | |
| PICH_Ec | dB | -5 | | |
| NOTE: This shall be less than -122 dBm to ensure the channel is considered as "off". | | | | |

Table 6.1.6: Default power levels of DPCH_Ec relative to CPICH_Ec

| Data transmission rate | Level |
|------------------------|-------|
| 12.2 kbps | -5 |
| 64 kbps | -2 |

| | |
|-------------------------|----|
| 64 kbps CS + 64 kbps PS | 0 |
| 144 kbps | +1 |
| 384 kbps | +5 |

6.1.5.1 HARQ Transmission Parameters (FDD)

The following HARQ transmission parameters shall be used for test cases in 34.123-1 configuring HS-DSCH channels.

Table 6.1.5.1 : HARQ transmission parameters without MIMO

| Parameter | QPSK modulation | 16QAM modulation | 64QAM modulation |
|--|-------------------|-------------------|-------------------|
| Redundancy and constellation version coding sequence | {0,2,5,6,1,3,7,4} | {6,2,1,5,3,4,7,0} | {6,2,1,5,3,4,7,0} |
| Maximum number of HARQ transmission | 8 | 8 | 8 |

Table 6.1.5.1a : HARQ transmission parameters with MIMO

| Parameter | QPSK modulation | 16QAM modulation | 64QAM modulation |
|--|-------------------|-------------------|-------------------|
| Redundancy and constellation version coding sequence | {0,3,2,1,3,2,1,3} | {0,3,2,1,3,2,1,3} | {0,3,2,1,3,2,1,3} |
| Maximum number of HARQ transmission | 8 | 8 | 8 |

6.1.5.2 Inter-band testing (FDD)

FDD inter-band testing only applies for UEs supporting multiple FDD bands simultaneously. In this case the UE can perform cell (re-)selection or inter-frequency mobility between a primary band and a secondary band. The primary and secondary FDD bands are selected according to PIXIT parameters. If a UE supports more than 2 FDD frequency bands, then the test may be executed for various band combinations.

6.1.6 Reference Radio Conditions (TDD)

The following transmission parameters shall be used for TDD modes other than 3.84 Mcps TDD IMB unless otherwise stated in the description of the individual test case.

Table 6.1.6a: Default settings for a serving cell in a single cell environment

| Parameter | Unit | Cell 1/Cell 21/Cell 31 |
|------------------------|--|--------------------------|
| Cell type | | Serving cell |
| UTRA RF Channel Number | | Mid Range Test Frequency |
| Qrxlevmin | dBm | -81 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| PCCPCH RSCP | dBm | -60 |
| NOTE: | The cell fulfils 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.123 [37]. The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test. | |

Table 6.1.7: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter | Unit | Cell 1/Cell 21/Cell 31 | Cell 2/Cell 22 | Cell 4/Cell 24/Cell 32 |
|------------------------|---|--------------------------|---|---|
| Cell type | | Serving cell | Suitable neighbour intra-frequency cell | Suitable neighbour inter-frequency cell |
| UTRA RF Channel Number | | Mid Range Test Frequency | Mid Range Test Frequency | High Range Test Frequency |
| Qrxlevmin | dBm | -81 | -81 | -81 |
| UE_TXPWR_MAX_RACH | dBm | 21 | 21 | 21 |
| PCCPCH RSCP | dBm | -60 | -60 | -70 |
| NOTE: | Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.123 [37]. The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test. | | | |

Table 6.1.8: Default settings for a non-suitable cell

| Parameter | Unit | Level |
|-------------------|------|-------|
| Qrxlevmin | dBm | -81 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| PCCPCH RSCP | dBm | -91 |

NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2.

Table 6.1.9: Default settings for a non-suitable "Off" cell

| Parameter | Unit | Level |
|-------------------|------|--------|
| Qrxlevmin | dBm | -81 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| PCCPCH RSCP | dBm | ≤ -110 |

NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2.

Table 6.1.10: Default power levels of physical channels relative to P-CCPCH

| Parameter | Unit | Level | Level |
|------------|------|-----------|----------------|
| | | Idle mode | Connected mode |
| SCCPCH_Ec | dB | -2 | -2 |
| FPACH_Ec | dB | -5 | -5 |
| PICH_Ec | dB | -5 | -5 |
| DPCH_Ec | dB | 0 | 0 |
| HS-SCCH_Ec | dB | 0 | 0 |
| E-AGCH_Ec | dB | -2 | -2 |
| E-HICH | dB | -2 | -2 |

6.1.6.1 Reference Radio Conditions (3.84 Mcps TDD IMB)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

Table 6.1.6.3 gives the default settings for a non-suitable cell which is configured and always present whereas table 6.1.6.4 is for a cell that is switched off. Cells configured according to table 6.1.6.3 are for test cases in which it is necessary to make a cell unsuitable, and then subsequently make it suitable. This could be achieved by switching the cell off and then reconfiguring as in table 6.1.6.4, but this takes a lot of time to do.

Table 6.1.6.1: Default settings for a serving cell in a single cell environment

| Parameter | Unit | Cell 31 |
|---------------------------------|--------------|--------------------------|
| Cell type | | Serving cell |
| UTRA RF Channel Number (Note 2) | | Mid Range Test Frequency |
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| P-CPICH Ec (Note 1) | dBm/3.84 MHz | -60 |
| T-CPICH Ec (Note 1) | dBm/3.84 MHz | -50.5 |

NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.

NOTE 2: The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test.

Table 6.1.6.2: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter | Unit | Cell 31 | Cell 33 |
|-----------|------|--------------|---|
| Cell type | | Serving cell | Suitable neighbour inter-frequency cell |

| UTRA RF Channel Number | | Mid Range Test Frequency | Mid Range Test Frequency |
|------------------------|--------------|--------------------------|--------------------------|
| Qqualmin | dB | -24 | -24 |
| Qrxlevmin | dBm | -79 | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 | 21 |
| P-CPICH Ec (Note 1) | dBm/3.84 MHz | -60 | -70 |
| T-CPICH Ec (Note 1) | dBm/3.84 MHz | -50.5 | -60.5 |

NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.

Table 6.1.6.3: Default settings for a non-suitable cell

| Parameter | Unit | Level |
|---------------------|--------------|-------|
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| P-CPICH Ec (Note 1) | dBm/3.84 MHz | -90 |
| T-CPICH Ec (Note 1) | dBm/3.84 MHz | -80.5 |

NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.

Table 6.1.6.4: Default settings for a non-suitable "Off" cell

| Parameter | Unit | Level |
|---------------------|--------------|---------------|
| Qqualmin | dB | -24 |
| Qrxlevmin | dBm | -79 |
| P-CPICH_Ec (Note 1) | dBm/3.84 MHz | ≤ -122 |
| T-CPICH Ec (Note 1) | dBm/3.84 MHz | ≤ -112.5 |

NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.

Table 6.1.6.5: Default power levels of physical channels relative to P-CPICH_Ec

| Parameter | Unit | Level |
|--------------------|------|-------|
| PCCPCH_Ec | dB | -2 |
| SCCPCH_Ec (Note 2) | dB | -14 |
| SCCPCH Type 2_Ec | dB | -2.57 |
| SCH_Ec | dB | -5 |
| T-CPICH | dB | -2.22 |
| MICH | dB | -14 |

NOTE 1: Relative power levels are stated per code.
NOTE 2: In 3GPP TS 25.221[28], clause 5.8.2.4, SCCPCH is referred to as SCCPCH Type 1.

6.1.7 Reference Radio Conditions (GSM)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

Table 6.1.10: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter | Unit | Cell 9 | Cell 10 |
|------------|------|--|--|
| Cell type | | Serving cell | Suitable neighbour cell |
| BCCH ARFCN | | As defined in the initial conditions in clause | As defined in the initial conditions in clause |

| | | | |
|--|-----|--|--|
| | | 26.6.5.1 of TS 51.010-1 [31] for cell A and the GSM band under test. | 26.6.5.1 of TS 51.010-1 [31] for cell B and the GSM band under test. |
| Base transceiver Station Identity Code (BSIC) | | BSIC1 | BSIC2 |
| Qrxlevmin | dBm | -81 | -81 |
| MS_TXPWR_MAX_CCH | dBm | According to maximum output power for the power class of the MS under test | |
| RF level | dBm | -48 | -54 |
| NOTE: Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.6.1.4 and 3GPP TS 25.133 [37], clause 8.1.2.5. | | | |

Table 6.1.11: Default settings for a non-suitable cell

| Parameter | Unit | Level |
|---|------|--|
| Qrxlevmin | dBm | -81 |
| MS_TXPWR_MAX_CCH | dBm | According to maximum output power for the power class of the MS under test |
| RF level | dBm | -90 |
| NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.6.1.4 | | |

6.1.8 Reference Radio Conditions (WLAN AP)

The same transmission parameters as in 36.508[45] clause 4.4.8 shall be used unless otherwise stated in the description of the individual test case.

6.2 Number of neighbour cells

The options for the number of neighbour cells (i.e. the total number of active cells in the simulated network) are given below. See clause 6.1 for cell configurations.

6.2.1 Basic Network

| Number of Cells | Use of Network Configuration |
|-----------------|--|
| 1 | Basic UE registration; RRC Connection Establishment and Release; operation of dedicated channels in non-handover modes; general RF and EMC testing |

6.2.2 Soft Handover Network (FDD)

| Number of Cells | Use of Network Configuration/Constraints |
|-----------------|--|
| 2 | Can be used in place of basic network, plus offering operation of dedicated channels in 2 way soft handover or in 2 way SSDT (R99 and Rel-4 only) handover for RF or signalling tests; simple cell reselection tests |

6.2.3 Hard Handover Network

| Number of Cells | Use of Network Configuration |
|-----------------|--|
| 2 | Can be used in place of basic network, plus offering operation in 2 cell hard handover (inter-frequency) |

6.2.4 'Roaming' Network

| Number of Cells | Use of Network Configuration |
|-----------------|--|
| 6 | This configuration is intended to provide the capability for extensive cell selection and reselection testing, as defined under Idle Mode Testing. The maximum number of separate RF test channels is 4 in order to limit the test equipment complexity. |

6.3 Cell/BS codes etc

See clause 6.1.

6.4 Routing/location area

See clause 6.1.

6.5 Network options settings

See clause 6.1.

6.6 Power control mode

6.6.1 Downlink Power Control

6.6.1.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel - the reference configuration is for the BER/BLER and SIR requirements to be fixed, i.e. Outer Loop Power Control is disabled.

6.6.1.2 Inner Loop Power Control

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements. The reference condition is for the Inner Loop Power Control to be disabled.

6.6.2 Uplink Power Control

6.6.2.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel - the reference configuration is for the BER/BLER and SIR requirements to be fixed, i.e. Outer Loop Power Control is disabled.

6.6.2.2 Inner Loop Power Control (FDD)

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements.

6.7 Tx Diversity modes

The reference settings for Tx Diversity Mode shall be:

6.7.1 Non-Diverse Operation

DL Transmit Diversity shall be disabled on all cells in the simulated network.

6.7.2 Diverse Operation

6.7.2.1 Diverse Operation (FDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network.

| Channel | Open loop mode | | Closed loop Mode |
|---------|----------------|------|------------------|
| | TSTD | STTD | |
| P-CCPCH | - | X | - |
| SCH | X | - | - |
| S-CCPCH | - | X | - |
| DPCH | - | X | - |
| PICH | - | X | - |
| AICH | - | X | - |

6.7.2.2 Diverse Operation (TDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network.

6.7.2.2.1 3.84 Mcps option

Table 6.7.1: Application of Tx diversity schemes on downlink physical channel types in 3.84 Mcps TDD "X" - can be applied, "-" - must not be applied

| Physical channel type | Open loop TxDiversity | | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
| | TSTD | SCTD (see note) | |
| P-CCPCH | - | X | - |
| S-CCPCH | -- | X | -- |
| SCH | X | - | - |
| DPCH | - | - | X |
| PDSCH | - | X | X |
| PICH | - | X | - |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

6.7.2.2.2 1.28 Mcps option

Table 6.7.2: Application of Tx diversity schemes on downlink physical channel types in 1.28 Mcps TDD "X" - can be applied, "-" - must not be applied

| Physical channel type | Open loop TxDiversity | | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
| | TSTD | SCTD (see note) | |
| P-CCPCH | X | X | - |
| S-CCPCH | X | X | - |
| DwPCH | X | - | - |
| DPCH | X | - | X |
| PDSCH | X | X | X |
| PICH | X | X | - |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

6.7.2.2.1 7.68 Mcps option

Table 6.7.1: Application of Tx diversity schemes on downlink physical channel types in 7.68 Mcps TDD "X" - can be applied, "-" - must not be applied

| Physical channel type | Open loop TxDiversity | | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
| | TSTD | SCTD (see note) | |
| P-CCPCH | - | X | - |
| S-CCPCH | -- | X | -- |
| SCH | X | - | - |
| DPCH | - | - | X |
| PDSCH | - | X | X |
| PICH | - | X | - |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

6.8 Compressed mode parameters

In this clause, Parameters for reference compressed mode patterns are defined which are used in signalling test cases such as inter frequency FDD measurement, inter frequency TDD measurement and inter RAT measurement in 3GPP TS 34.123-1 [1]. These parameters are defined in 3GPP TS 25.133 [30] for measurement performance tests.

Depending on UE capability, there are four methods constructed of three types using of compressed mode such as UL only, DL only and both UL and DL, and using without application of compressed for the above measurement purposes. As test requirement is the same even if the test methods are different, ICS/IXIT statement is applied to the test cases so that the test procedure and specific message contents specified in 3GPP TS 34.123-1 [1] can be distinguished.

6.8.1 Single compressed mode pattern

Configuration parameters in single compressed mode pattern for one type of measurement objects are described in the following clauses.

6.8.1.1 Inter Frequency FDD measurement

The configuration parameters for an inter frequency FDD measurement is shown in table 6.8.1.

Table 6.8.1: Compressed mode parameters (Inter Frequency FDD measurement)

| Parameter | Value | Note |
|--|---|--|
| TGSN (Transmission Gap Starting Slot Number) | 4 | |
| TGL1 (Transmission Gap Length 1) | 7 | |
| TGL2 (Transmission Gap Length 2) | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 3 | |
| TGPL2 (Transmission Gap Pattern Length) | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | $(\text{Current CFN} + (256 - \text{TTI}/10\text{msec})) \bmod 256$ | |
| UL/DL compressed mode selection | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | |
| DL compressed mode method | SF/2 | |
| Scrambling code change | No | |
| RPP (Recovery period power control mode) | 0 | |
| ITP (Initial transmission power control mode) | 0 | |

6.8.1.2 Inter Frequency TDD measurement

The configuration parameters for an inter frequency TDD measurement is shown in table 6.8.2.

Table 6.8.2: Compressed mode parameters (Inter Frequency TDD measurement)

| Parameter | Value | Note |
|--|---|--|
| TGSN (Transmission Gap Starting Slot Number) | 10 | |
| TGL1 (Transmission Gap Length 1) | 10 | |
| TGL2 (Transmission Gap Length 2) | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 11 | |
| TGPL2 (Transmission Gap Pattern Length) | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | $(\text{Current CFN} + (256 - \text{TTI}/10\text{msec})) \bmod 256$ | |
| UL/DL compressed mode selection | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | |
| DL compressed mode method | Puncturing | |
| Scrambling code change | No | |
| RPP (Recovery period power control mode) | 0 | |
| ITP (Initial transmission power control mode) | 0 | |

6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

The configuration parameters for an Inter RAT measurement (GSM - Carrier RSSI) is shown in table 6.8.3.

Table 6.8.3: Compressed mode parameters (Inter RAT measurement - GSM Carrier RSSI)

| Parameter | Value | Note |
|--|-------|------|
| TGSN (Transmission Gap Starting Slot Number) | 4 | |

| | | |
|--|---|--|
| TGL1 (Transmission Gap Length 1) | 7 | |
| TGL2 (Transmission Gap Length 2) | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 12 | |
| TGPL2 (Transmission Gap Pattern Length) | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 | |
| UL/DL compressed mode selection | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | |
| DL compressed mode method | SF/2 | |
| Scrambling code change | No | |
| RPP (Recovery period power control mode) | 0 | |
| ITP (Initial transmission power control mode) | 0 | |

6.8.1.4 Inter RAT measurement (GSM - Initial BSIC Identification)

The configuration parameters for an inter frequency RAT measurement (GSM - Initial BSIC Identification) is shown in table 6.8.4.

Table 6.8.4: Compressed mode parameters (Inter RAT measurement - GSM Initial BSIC Identification)

| Parameter | Value | Note |
|--|---|--|
| TGSN (Transmission Gap Starting Slot Number) | 4 | |
| TGL1 (Transmission Gap Length 1) | 7 | |
| TGL2 (Transmission Gap Length 2) | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 8 | |
| TGPL2 (Transmission Gap Pattern Length) | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 | |
| UL/DL compressed mode selection | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | |
| DL compressed mode method | SF/2 | |
| Scrambling code change | No | |
| RPP (Recovery period power control mode) | 0 | |
| ITP (Initial transmission power control mode) | 0 | |

6.8.1.5 Inter RAT measurement (GSM - BSIC re-confirmation)

The configuration parameters for an inter RAT measurement (GSM - BSIC re-confirmation) is shown in table 6.8.5.

Table 6.8.5: Compressed mode parameters (Inter RAT measurement - GSM BSIC re-confirmation)

| Parameter | Value | Note |
|--|---|--|
| TGSN (Transmission Gap Starting Slot Number) | 4 | |
| TGL1 (Transmission Gap Length 1) | 7 | |
| TGL2 (Transmission Gap Length 2) | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 8 | |
| TGPL2 (Transmission Gap Pattern Length) | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 | |

| | | |
|---|-------------------|--|
| UL/DL compressed mode selection | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | |
| DL compressed mode method | SF/2 | |
| Scrambling code change | No | |
| RPP (Recovery period power control mode) | 0 | |
| ITP (Initial transmission power control mode) | 0 | |

6.8.2 Multiple compressed mode patterns

Configuration parameters in multiple compressed mode patterns for several types of measurement objects are described in the following clauses.

6.8.2.1 Inter RAT measurement GSM

The configuration parameters for an inter RAT measurement (GSM - Carrier RSSI, Initial BSIC Identification and BSIC Re-confirmation) is shown in table 6.8.6.

Table 6.8.6: Compressed mode parameters (Inter RAT measurement - GSM Carrier RSSI and Initial BSIC identification and BSIC re-confirmation)

| Parameter | GSM Carrier RSSI | GSM Initial BSIC identification | GSM BSIC re-confirmation | Note |
|---|---|---|---|---|
| TGSN (Transmission Gap Starting Slot Number) | 4 | 4 | 4 | |
| TGL1 (Transmission Gap Length 1) | 7 | 7 | 7 | |
| TGL2 (Transmission Gap Length 2) | - | - | - | Only one gap in use. |
| TGD (Transmission Gap Distance) | undefined | undefined | undefined | |
| TGPL1 (Transmission Gap Pattern Length) | 12 | 8 | 8 | |
| TGPL2 (Transmission Gap Pattern Length) | - | - | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable. |
| TGCFN (Transmission Gap Connection Frame Number): | (Current CFN + (252 - TTI/10msec))mod 256 | (Current CFN + (254 - TTI/10msec))mod 256 | (Current CFN + (250 - TTI/10msec))mod 256 | Defined by higher layers |
| UL/DL compressed mode selection | DL, UL or DL & UL | DL, UL or DL & UL | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | SF/2 | SF/2 | |
| DL compressed mode method | SF/2 | SF/2 | SF/2 | |
| Scrambling code change | No | No | No | |
| RPP (Recovery period power control mode) | 0 | 0 | 0 | |
| ITP (Initial transmission power control mode) | 0 | 0 | 0 | |

6.8.2.2 Inter Frequency FDD measurement & Inter RAT measurement GSM

The configuration parameters for Inter Frequency FDD measurement and Inter RAT measurement (GSM - Carrier RSSI, Initial BSIC Identification and BSIC Re-confirmation) is shown in table 6.8.7.

The pattern is illustrated by Figure 6.8.2.2.

Table 6.8.7: Compressed mode parameters (Inter Frequency and Inter RAT measurement - GSM Carrier RSSI and Initial BSIC identification and BSIC re-confirmation)

| Parameter | Inter Frequency FDD | GSM Carrier RSSI | GSM Initial BSIC identification | GSM BSIC re-confirmation | Note |
|---------------------------------|---------------------|------------------|---------------------------------|--------------------------|------|
| TGSN (Transmission Gap Starting | 8 | 8 | 8 | 8 | |

| Parameter | Inter Frequency FDD | GSM Carrier RSSI | GSM Initial BSIC identification | GSM BSIC re-confirmation | Note |
|---|--|--|--|--|--|
| Slot Number) | | | | | |
| TGL1 (Transmission Gap Length 1) | 14 | 14 | 14 | 14 | |
| TGL2 (Transmission Gap Length 2) | 14 | 14 | 14 | 14 | |
| TGD (Transmission Gap Distance) | 0 | 60 | 45 | 0 | |
| TGPL1 (Transmission Gap Pattern Length) | 12 | 24 | 24 | 24 | |
| TGPL2 (Transmission Gap Pattern Length) | - | - | - | - | R99 and Rel-4: Only one pattern in use. Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number): | (Current CFN + (238 - TTI/10msec)) mod 256 | (Current CFN + (242 - TTI/10msec)) mod 256 | (Current CFN + (256 - TTI/10msec)) mod 256 | (Current CFN + (253 - TTI/10msec)) mod 256 | Defined by higher layers |
| UL/DL compressed mode selection | DL, UL or DL & UL | DL, UL or DL & UL | DL, UL or DL & UL | DL, UL or DL & UL | 3 configurations possible. DL, UL or both DL and UL |
| UL compressed mode method | SF/2 | SF/2 | SF/2 | SF/2 | |
| DL compressed mode method | SF/2 | SF/2 | SF/2 | SF/2 | |
| Scrambling code change | No | No | No | No | |
| RPP (Recovery period power control mode) | 0 | 0 | 0 | 0 | |
| ITP (Initial transmission power control mode) | 0 | 0 | 0 | 0 | |

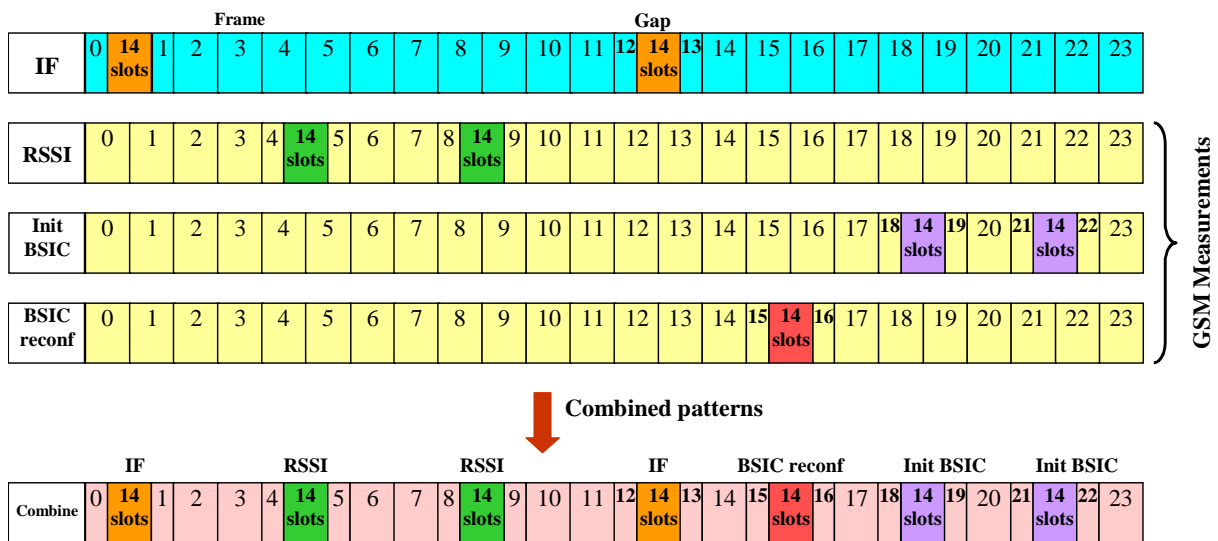


Figure 6.8.2.2: Inter-frequency (IF) and Inter-RAT (IRAT) measurement gaps during 24 frames cycle for the compressed mode pattern as specified in Table 6.8.7

6.8.2.3 Inter Frequency FDD measurement & Inter Frequency TDD measurement

FFS

6.8.2.4 Inter Frequency TDD measurement & Inter RAT measurement GSM

FFS

6.8.2.5 Inter Frequency FDD measurement & Inter Frequency TDD measurement & Inter RAT measurement GSM

FFS

6.9 BCCH parameters

See clause 6.1.

6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

The reference radio bearer configurations are typical configurations of the radio interface. This sub-set of the mandatory set of radio bearer configurations supported by the UE is intended to be used as test configurations for testing of the UE. The purpose of the reference radio bearer configurations is to ensure interoperability of UE's in different regions and networks.

The reference radio bearer configurations are used in the radio bearer interoperability test cases, clause 14 of 3GPP TS 34.123-1 [1]. The reference radio bearer configurations are also intended to be the first choice for other test cases where a radio bearer configuration is needed. For test cases requiring alternative configurations not provided by the reference radio bearer configurations then these specific radio bearer configurations are either specified in the actual test case itself; or in case the configurations are used by more than one test case then these common radio bearer configurations are specified in clause 6.11 of the present document.

NOTE: If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing. However, in the case of UL and DL:3.4 kbps SRBs for DCCCH and where the Choice "Same As UL" is used for the IE "DL Transport channel information common for all transport channel", the RM attribute for the "DL:3.4 kbps SRBs for DCCCH" shall be set to the same value as that used in the Uplink.

6.10.1 QoS Architecture and RAB attributes

From a user point-of-view services are considered end-to-end, this means from a Terminal Equipment (TE) to another TE. An End-to-End Service may have a certain Quality of Service (QoS) which is provided for the user through the different networks. In UMTS, it is the UMTS Bearer Service that provides the requested QoS through the use of different QoS classes as defined in 3GPP TS 23.107 [15].

The UMTS Bearer Service consists of two parts, the Radio Access Bearer Service, RAB, and the Core Network Bearer Service. The Radio Access Bearer Service is realized by a Radio Bearer Service and an Iu-Bearer Service. The relationship between the services is illustrated in figure 6.10.1.1.

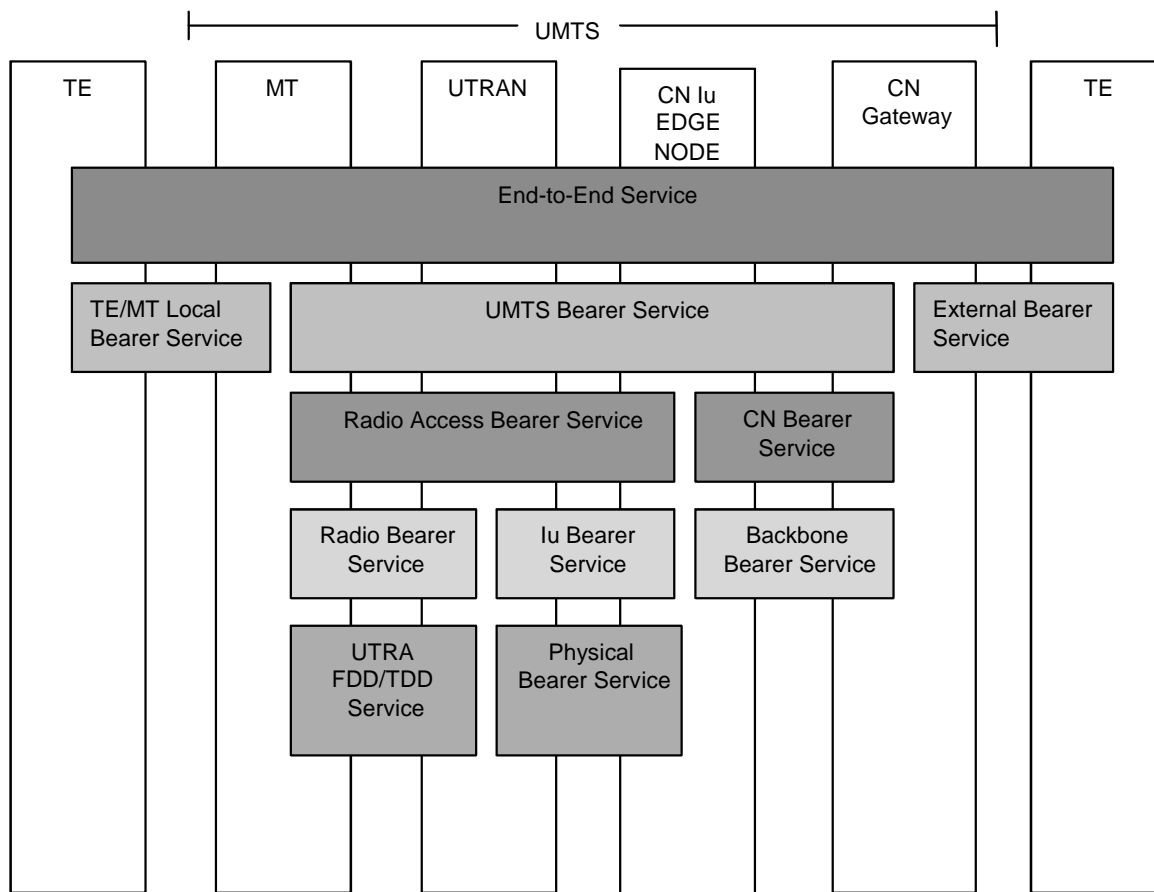


Figure 6.10.1.1: UMTS QoS Architecture

The Radio Access Bearer Service is characterized by a number of attributes such as Traffic class, Maximum bit rate, Guaranteed bit rate, SDU error ratio, Residual BER, Transfer Delay etc. As a first approach the four following attributes have been considered to come up with the parameter settings in clause 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode:

- Traffic class;
- SSD;
- Maximum bit rate;
- Residual BER.

The Traffic classes are explained in table 6.10.1.1. The Maximum bit rate has been considered at RLC layer and Physical Layer for the acknowledged and unacknowledged modes respectively. The Residual BER is understood as BER at RLC layer and Transport BLER for the acknowledged and unacknowledged modes respectively.

NOTE: The maximum bit rate in clause 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode is one of the RAB attribute as described above. For Interactive/Background PS RABs, however, the maximum bit rate of Radio Bearer can be lower than the maximum bit rate of RAB attributes due to radio resource management. Bit rates of Interactive/Background PS RABs described in 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode may represent the maximum bit rate of Radio Bearer taking account into this management.

Table 6.10.1.1: Traffic classes

| Traffic class | Conversational class conversational RT | Streaming class streaming RT | Interactive class Interactive best effort | Background Background best effort |
|------------------------------------|---|--|--|---|
| Fundamental characteristics | - Preserve time relation (variation) between information entities of the stream Conversational pattern (stringent and low delay) | - Preserve time relation (variation) between information entities of the stream (i.e. some but constant delay) | Request response pattern Preserve payload content | Destination is not expecting the data within a certain time Preserve payload content |
| Example of the application | - speech, video, etc. | - facsimile (NT) - streaming audio and video | - Web browsing | - background download of emails |

6.10.2 RAB and signalling RB for FDD

6.10.2.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

Table 6.10.2.1.1: Prioritized RABs

| # | Traffic class 3GPP TS 23.107 [15] | SSD 3GPP TS 23.107 [15] | Max. rate, kbps | CS/PS | Version |
|----|--------------------------------------|----------------------------|--|-------|---------|
| 1 | Conversational | Speech | UL:12.2 DL:12.2 | CS | R99 |
| 1a | Conversational | Speech | UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) | CS | R99 |
| 1b | Conversational | Speech | UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) | CS | R99 |
| 2 | Conversational | Speech | UL:10.2 DL:10.2 | CS | R99 |
| 2a | Conversational | Speech | UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) | CS | R99 |
| 3 | Conversational | Speech | UL:7.95 DL:7.95 | CS | R99 |
| 4 | Conversational | Speech | UL:7.4 DL:7.4 | CS | R99 |
| 4a | Conversational | Speech | UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) | CS | R99 |

| # | Traffic class 3GPP TS 23.107 [15] | SSD 3GPP TS 23.107 [15] | Max. rate, kbps | CS/PS | Version |
|-----|--------------------------------------|----------------------------|--|-------|---------|
| 5 | Conversational | Speech | UL:6.7 DL:6.7 | CS | R99 |
| 6 | Conversational | Speech | UL:5.9 DL:5.9 | CS | R99 |
| 7 | Conversational | Speech | UL:5.15 DL:5.15 | CS | R99 |
| 8 | Conversational | Speech | UL:4.75 DL:4.75 | CS | R99 |
| 9 | Conversational | Unknown | UL:28.8 DL:28.8 | CS | R99 |
| 10 | Conversational | Unknown | UL:64 DL:64 | CS | R99 |
| 11 | Conversational | Unknown | UL:32 DL:32 | CS | R99 |
| 11a | Conversational | Unknown | UL:8 DL:8 | PS | R99 |
| 12 | Streaming | Unknown | UL:14.4 DL:14.4 | CS | R99 |
| 13 | Streaming | Unknown | UL:28.8 DL:28.8 | CS | R99 |
| 14 | Streaming | Unknown | UL:57.6 DL:57.6 | CS | R99 |
| 15 | Void | | | | |
| 15a | Streaming | Unknown | UL:16 DL:64 | PS | R99 |
| 15b | Streaming | Unknown | UL:16 DL:128 | PS | R99 |
| 16 | Void | | | | |
| 17 | Void | | | | |
| 18 | Void | | | | |
| 19 | Void | | | | |
| 20 | Interactive or Background | N/A | UL:32 DL:8 | PS | R99 |
| 20a | Interactive or Background | N/A | UL:8 DL:8 | PS | R99 |
| 20b | Interactive or Background | N/A | UL:16 DL:16 | PS | R99 |
| 20c | Interactive or Background | N/A | UL:32 DL:32 | PS | R99 |
| 21 | Void | | | | |
| 22 | Interactive or Background | N/A | UL:32 DL:64 | PS | R99 |
| 23 | Interactive or Background | N/A | UL:64 DL:64 | PS | R99 |
| 24 | Interactive or Background | N/A | UL:64 DL:128 | PS | R99 |
| 25 | Interactive or Background | N/A | UL:128 DL:128 | PS | R99 |
| 26 | Interactive or Background | N/A | UL:64 DL:384 | PS | R99 |
| 27 | Interactive or Background | N/A | UL:128 DL:384 | PS | R99 |
| 28 | Interactive or Background | N/A | UL:384 DL:384 | PS | R99 |
| 29 | Interactive or Background | N/A | UL:64 DL:2048 | PS | R99 |
| 30 | Interactive or Background | N/A | UL:128 DL:2048 | PS | R99 |
| 31 | Void | | | | |
| 32 | Interactive or Background | N/A | UL:64 DL:256 | PS | R99 |
| 33 | Interactive or Background | N/A | UL:0 DL:32 | PS | R99 |
| 34 | Interactive or Background | N/A | UL:32 DL: 0 | PS | R99 |
| 35 | Interactive or Background | N/A | UL:64 DL:144 | PS | R99 |
| 36 | Interactive or Background | N/A | UL:144 DL:144 | PS | R99 |
| 37 | Conversational | N/A | UL:42.8 DL:42.8 | PS | REL-5 |
| 38 | Conversational | Speech | UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) | CS | REL-5 |
| 39 | Interactive or Background | N/A | UL:64 DL:768 | PS | REL-5 |

Table 6.10.2.1.2: Signalling RBs

| # | Maximum rate, kbps | Logical channel | PhyCh onto which SRBs are mapped | Version |
|----|---|-----------------|-------------------------------------|-----------------------|
| 1 | UL:1.7 DL:1.7 | DCCH | DPCH | R99 and Rel-4 only |
| 2 | UL:3.4 DL:3.4 | DCCH | DPCH | R99 |
| 3 | UL:13.6 DL:13.6 | DCCH | DPCH | R99 |
| 4 | DL:27.2 (alt. 40.8) | DCCH | SCCPCH | R99 |
| 5 | UL:16.6/23.8 | CCCH | PRACH | R99/Rel-6 |
| 6 | DL:30.4 (alt. 45.6) | CCCH | SCCPCH | R99 |
| 7 | DL:33.2 (alt. 49.8) | BCCH | SCCPCH | R99 |
| 8 | DL:24 (alt. 6.4) | PCCH | SCCPCH | R99 |
| 9 | DL: 0.15 | DCCH | DPCH | REL-5 |
| 10 | UL: [max bit rate depending on UE category and TTI], DL: [max bit rate depending on UE category] | DCCH | E-DPCH/HS-DSCH | REL-6 |

6.10.2.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (R99 and Rel-4 only).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4b) Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-4).
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.

- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Void
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void
- 37) Void
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 38g) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38k) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing).
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void.
- 48) Void.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58a) Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 60) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB +
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 62) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-5).
- 63) Interactive or background / UL:64 DL:768 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (REL-5).

Combinations on DSCH and DPCH

- 1) Void

- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 4) Void
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (R99 and Rel-4 only).

Combinations on SCCPCH

- 1) Stand-alone 24 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
+ SRB for CCCH
+ SRBs for DCCH
+ SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
+ SRB for PCCH
+ SRB for CCCH
+ SRBs for DCCH
+ SRB for BCCH.
- 4) RB for CTCH
+ SRB for CCCH
+SRB for BCCH
- 5) 64.8kbps RB for MTCH with 80 ms TTI
- 6) 129.6 kbps RB for MTCH with 80 ms TTI
- 7) 259.2 kbps RB for MTCH with 40 ms TTI
- 8) 7.6 kbps signalling RB for MCCH
- 9) Interactive or background / DL:32 kbps / PS RAB
+ SRB for PCCH
+ SRB for CCCH
+ SRBs for DCCH
+ SRB for BCCH
+ SRB for MCCH.

Combinations on PRACH

- 1) Interactive or background / UL:32 kbps / PS RAB
+ SRB for CCCH
+ SRBs for DCCH.

Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 1a) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5a) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-5)
- 9) Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-6)
- 10) Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-6)

Combinations on HS-PDSCH and E-DPDCH

- 0) Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 1) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH (REL-6)
- 2) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH (REL-6)
- 3) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

- 6) Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 7) Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 8) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-6)
- 9) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) kbps DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-8 + NOTE1)
- 10) Conversational / speech / UL:(12.65, 8.85, 6.6) kbps DL: (12.65, 8.85, 6.6) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-8 + NOTE1)

NOTE1: Support depends on the UE capability: Support for CS voice over HSPA. This is supported in rel-8 and may be supported in rel-7.

Combinations on PRACH and HS-DSCH

- 1) Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK

6.10.2.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.2.3.1.

Table 6.10.2.3.1: Example of linkage between RABs and services

| RAB | | | | Residual BER [15] | Services |
|---------------------------|----------|------------------------------|-------|--|---------------------------------------|
| Traffic class [15] | SSD [15] | Max. rate, kbps | CS/PS | | |
| Conversational | Speech | UL:4.75-12.2 DL:4.75-12.2 | CS | 5×10^{-4} , 1×10^{-3} , 5×10^{-3} | AMR speech |
| Conversational | Unknown | UL:64 DL:64 | CS | 1×10^{-4} or 1×10^{-6} | UDI 1B, 64k 3G-324M [15] |
| Conversational | Unknown | UL:32 DL:32 | CS | 1×10^{-4} or 1×10^{-6} | 32k 3G-324M [15] |
| Conversational | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | Transparent modem |
| Streaming | Unknown | UL:14.4 DL:14.4 | CS | 1×10^{-3} | FAX ^[6] |
| Streaming | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | FAX [18] PIAFS 32 kbps |
| Streaming | Unknown | UL:57.6 DL:57.6 | CS | 1×10^{-3} | Modem [18], FTM [17] PIAFS 64 kbps |
| Streaming | Unknown | UL:64-128 or DL:64-384 | CS | 1×10^{-3} or 1×10^{-4} | Streaming video, uni-directional |
| Interactive or Background | N/A | UL:32-384 DL:8-2048 | PS | 1×10^{-3} or 1×10^{-4} | Packet |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH.

NOTE 3: UDI n B can be provided via n RABs of conversational 64 kbps.

6.10.2.4 Typical radio parameter sets

NOTE: The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

6.10.2.4.1 Combinations on DPCH

6.10.2.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1.1 Transport channel parameters

6.10.2.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|-----------------|------------------------------|-----------------------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 80 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 65 | | | |
| | RM attribute | 155 to 185 | | | |

6.10.2.4.1.1.1.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.1.1.2 Physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 256 |
| | Max number of DPDCH data bits/radio frame | 150 |
| | Puncturing Limit | 1 |

6.10.2.4.1.1.2 Downlink

6.10.2.4.1.1.2.1 Transport channel parameters

6.10.2.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------|--------------|------------------------------|-----------------------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |

| | | | | | |
|---|---|--------------------------------|-------|-------|-------|
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) (note) | | | |
| | TFS | 0 x148 (alt 1x0) (note) | | | |
| | TF0, bits | 1x148 | | | |
| | TF1, bits | 1x148 | | | |
| | TTI, ms | 80 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | RM attribute | 155 to 185 | | | |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | | | |

6.10.2.4.1.1.2.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.1.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 512 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 4 |
| | | Number of data bits/frame | 60 |

6.10.2.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.2.1 Uplink

6.10.2.4.1.2.1.1 Transport channel parameters

6.10.2.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|-------|------------------|-----------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) | | | |
| | TFS | 0x148 (alt 1x0) | | | |
| | TF0, bits | 1x148 | | | |
| | TF1, bits | 1x148 | | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 129 | | | |
| | RM attribute | 155 to 185 | | | |

6.10.2.4.1.2.1.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.2.1.2 Physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 256 |
| | Max number of DPDCH data bits/radio frame | 150 |
| | Puncturing Limit | 1 |

6.10.2.4.1.2.2 Downlink

6.10.2.4.1.2.2.1 Transport channel parameters

6.10.2.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|---|---|--------------------------------|------------------------|---------------------|--------------------|
| | User of Radio Bearer | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | RM attribute | 155 to 230 | | | |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | | | |

6.10.2.4.1.2.2.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.2.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-----|
| DPCH Downlink | DTX position | Fixed | |
| | Spreading factor | 256 | |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 14 |
| | | Number of data bits/frame | 210 |

6.10.2.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.10.2.4.1.3.1 Uplink

6.10.2.4.1.3.1.1 Transport channel parameters

6.10.2.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|-----------------|---------------------|--------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 516 | | | |

6.10.2.4.1.3.1.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.3.1.2 Physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1 |

6.10.2.4.1.3.2 Downlink

6.10.2.4.1.3.2.1 Transport channel parameters

6.10.2.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| | | | | | |
|--------------|-------------------------|--------------------------------|------------------------|---------------------|--------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt 0, 148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |

| | | |
|---|---|-----|
| | Max number of bits/TTI before rate matching | 516 |
| NOTE: alternative parameters enable the measurement "transport channel BLER" in the UE. | | |

6.10.2.4.1.3.2.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.1.3.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps
SRBs for DCCH

6.10.2.4.1.4.1 Uplink

6.10.2.4.1.4.1.1 Transport channel parameters

6.10.2.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|---|----------------------------|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 81 (alt. 0, 39, 81) | 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 81 (alt. 0, 39, 81) | 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x103 | 1x60 |
| | | TF2, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Uplink: Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.

6.10.2.4.1.4.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= |

| | |
|--|---|
| | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
|--|---|

6.10.2.4.1.4.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.84 |

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

6.10.2.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0 | 103 | 60 | |
| | | 39 | | | |
| | | 81 | | | |
| | Max data rate, bps | 12 200 | | | |
| TrD PDU header, bit | 0 | | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 103 | 60 | |
| | | 39 | | | |
| | | 81 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x103 | 1x60 |
| | | TF2, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.4.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.1.4.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-----|
| DPCH Downlink | DTX position | Fixed | |
| | Spreading factor | 128 | |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

- 6.10.2.4.1.4a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.4a.1 Uplink
- 6.10.2.4.1.4a.1.1 Transport channel parameters
- 6.10.2.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|--|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 81) | 53, 63, 84, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2 bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x84 | N/A |
| | | TF4, bits | 1x75 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Uplink: Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

- 6.10.2.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.4a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

- 6.10.2.4.1.4a.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.84 |

6.10.2.4.1.4a.2 Downlink

6.10.2.4.1.4a.2.1 Transport channel parameters

6.10.2.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|-----------------------|-----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0, 39, 42, 55, 75, 81 | 53, 63, 84, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0, 39, 42, 55, 75, 81 | 53, 63, 84, 103 | 60 | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x84 | N/A |
| | | TF4, bits | 1x75 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.4a.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

6.10.2.4.1.4a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCl bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.4b Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.1.4b.1.1 Transport channel parameters

6.10.2.4.1.4b.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.4 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|--|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 61, 81 (alt. 0, 39, 42, 55, 61, 81) | 53, 63, 87, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 61, 81 (alt. 0, 39, 42, 55, 61, 81) | 53, 63, 87, 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2 bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x87 | N/A |
| | | TF4, bits | 1x61 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Uplink: Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| | NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.4b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See subclause 6.10.2.4.1.2.1.1.1 of [1].

6.10.2.4.1.4b.1.1.3 TFCS

See subclause 6.10.2.4.1.4a.1.1.3 of [1].

6.10.2.4.1.4b.1.1.4 TFC subset list

| | |
|----------------------|---|
| TFC subset list size | 4 |
| TFC subset list | <p>0 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1)},</p> <p>1 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1)},</p> <p>2 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1)}</p> <p>3 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)}</p> |

6.10.2.4.1.4b.1.2 Physical channel parameters

See subclause 6.10.2.4.1.4a.1.2 of [1].

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.84 |

- 6.10.2.4.1.4b.2 Downlink
- 6.10.2.4.1.4b.2.1 Transport channel parameters
- 6.10.2.4.1.4b.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.4 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|-----------------------|-----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0, 39, 42, 55, 61, 81 | 53, 63, 87, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0, 39, 42, 55, 61, 81 | 53, 63, 87, 103 | 60 | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x87 | N/A |
| | | TF4, bits | 1x61 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

- 6.10.2.4.1.4b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See subclause 6.10.2.4.1.2.2.1.1 of [1].

- 6.10.2.4.1.4b.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

See subclause 6.10.2.4.1.62.2.1.3 of [1].

- 6.10.2.4.1.4b.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH, DCCH 0.15)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

- 6.10.2.4.1.4b.2.2 Physical channel parameters

See subclause 6.10.2.4.1.4a.2.2 of [1].

- 6.10.2.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.10.2.4.1.5.1 Uplink

- 6.10.2.4.1.5.1.1 Transport channel parameters

6.10.2.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|---|----------------------------|---------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Uplink: Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.5.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.1.5.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.5.2 Downlink

6.10.2.4.1.5.2.1 Transport channel parameters

6.10.2.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|----------------|----------------|----------------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | TM |
| | Payload sizes, bit | 0 39 65 | 99 | 40 |
| | Max data rate, bps | 10 200 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |

| | | | | | |
|--------------|---|------------|---------------|------------|--------|
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| | TB sizes, bit | | 0 39 65 | 99 | 40 |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | | 20 | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | | 255 | 321 | 96 |
| RM attribute | | 180 to 220 | 170 to 210 | 215 to 256 | |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.5.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.1.5.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.5a.1 Uplink

6.10.2.4.1.5a.1.1 Transport channel parameters

6.10.2.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| | | | | |
|--------------|----------------------|--|--|----------------|
| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | TM |
| | Payload sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 |
| | Max data rate, bps | 10 200 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, bit | | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |

| | | | | |
|---|---|------------|------------|------------|
| | TF3, bits | 1x55 | 1x76 | N/A |
| | TF4, bits | 1x58 | 1x99 | N/A |
| | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 |
| | Uplink: Max number of bits/radio frame before rate matching | 128 | 161 | 48 |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.5a.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

6.10.2.4.1.5a.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.5a.2 Downlink

6.10.2.4.1.5a.2.1 Transport channel parameters

6.10.2.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|----------------------|-----------------------|-------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0, 39, 42, 55, 58, 65 | 0, 53, 63, 76, 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0, 39, 42, 55, 58, 65 | 0, 53, 63, 76, 99 | 40 | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x53 | 1x40 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x76 | N/A |
| | | TF4, bits | 1x58 | 1x99 | N/A |
| | | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| Max number of bits/TTI after channel coding | 255 | 321 | 96 | | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).
 NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.5a.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

6.10.2.4.1.5a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCl bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.6.1 Uplink

6.10.2.4.1.6.1.1 Transport channel parameters

6.10.2.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|---|------------|---------------------------|----------------|----------------|
| RLC | Logical channel type | | DTCH | | |
| | RLC mode | | TM | TM | TM |
| | Payload sizes, bit | | 39,75 (alt. 0, 39, 75) | 84 | 60 |
| | Max data rate, bps | | 7950 | | |
| | TrD PDU header, bit | | 0 | | |
| MAC | MAC header, bit | | 0 | | |
| | MAC multiplexing | | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| | TB sizes, bit | | 39,75 (alt. 0, 39, 75) | 84 | 60 |
| | TFS (note 1) | TF0, bits | 0x75 (alt. 1x0) (note) | 0x84 | 0x60 |
| | | TF1, bits | 1x39 | 1x84 | N/A |
| | | TF2, bits | 1x75 | N/A | N/A |
| | TTI, ms | | 20 | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | | 285 | 276 | 0 |
| | Uplink: Max number of bits/frame before rate matching | | 143 | 138 | 0 |
| RM attribute | | 180 to 220 | 170 to 210 | 215 to 256 | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.6.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow #3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.6.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.6.2 Downlink

6.10.2.4.1.6.2.1 Transport channel parameters

6.10.2.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0, 39, 75 | 84 | 60 | |
| | Max data rate, bps | 7950 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 84 | 60 | |
| | | 39 | | | |
| | | 75 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x84 | 0x60 |
| | | TF1, bits | 1x39 | 1x84 | N/A |
| | | TF2, bits | 1x75 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 285 | 276 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.6.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.6.2.2 Physical channel parameters

| | | | |
|---------------|------------------|--------------------------|---|
| DPCH Downlink | DTX position | Fixed | |
| | Spreading factor | 128 | |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |

| | | | |
|--|-------|---------------------------|-----|
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.7.1 Uplink

6.10.2.4.1.7.1.1 Transport channel parameters

6.10.2.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|-------------------------|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | 60 | |
| | Max data rate, bps | 7400 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | 60 | |
| | TFS (note 1) | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 | 0x60 |
| | | TF1, bits | 1x39 | 1x87 | N/A |
| | | TF2, bits | 1x61 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | 0 | |
| | Uplink: Max number of bits/radio frame before rate matching | 122 | 143 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.7.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.7.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.7.2 Downlink

6.10.2.4.1.7.2.1 Transport channel parameters

6.10.2.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0 | 87 | 60 | |
| | | 39 | | | |
| | | 61 | | | |
| Max data rate, bps | 7400 | | | | |
| TrD PDU header, bit | 0 | | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 87 | 60 | |
| | | 39 | | | |
| | | 61 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x87 | 0x60 |
| | | TF1, bits | 1x39 | 1x87 | N/A |
| | | TF2, bits | 1x61 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCh corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.7.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.7.2.2 Physical channel parameters

| DPCH Downlink | DTX position | Fixed |
|---------------|---------------------------|-------|
| | Spreading factor | 128 |
| DPCCH | Number of TFCl bits/slot | 0 |
| | Number of TPC bits/slot | 2 |
| | Number of Pilot bits/slot | 4 |
| DPDCH | Number of data bits/slot | 34 |
| | Number of data bits/frame | 510 |

6.10.2.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.7a.1 Uplink

6.10.2.4.1.7a.1.1 Transport channel parameters

6.10.2.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|---|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Uplink: Max number of bits/radio frame before rate matching | 122 | 143 | |
| | RM attribute | 180 to 220 | 170 to 210 | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.7a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |

6.10.2.4.1.7a.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.7a.2 Downlink

6.10.2.4.1.7a.2.1 Transport channel parameters

6.10.2.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|-----------------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |
| | Max data rate, bps | 7 400 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | DCH |
| | TB sizes, bit | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |

| | | | | |
|--|---|------------|--------------|------|
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | RM attribute | 180 to 220 | 170 to 210 | |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.7a.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |

6.10.2.4.1.7a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.8.1 Uplink

6.10.2.4.1.8.1.1 Transport channel parameters

6.10.2.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|----------------------|-------------------------|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | 60 | |
| | Max data rate, bps | 6700 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | 60 | |
| | TFS (note 1) | TF0, bits | 0x58 (alt. 1x0) (note) | 0x76 | 0x60 |
| | | TF1, bits | 1x39 | 1x76 | N/A |
| | | TF2, bits | 1x58 | N/A | N/A |

| | | | | |
|--|---|------------|------------|------------|
| | TTI, ms | 20 | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | 234 | 252 | 0 |
| | Uplink: Max number of bits/radio frame before rate matching | 117 | 126 | 0 |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.8.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.8.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

6.10.2.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0 | 76 | 60 | |
| | | 39 | | | |
| | | 58 | | | |
| | Max data rate, bps | 6700 | | | |
| TrD PDU header, bit | 0 | | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 76 | 60 | |
| | | 39 | | | |
| | | 58 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x76 | 0x60 |
| | | TF1, bits | 1x39 | 1x76 | N/A |
| | | TF2, bits | 1x58 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 234 | 252 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.8.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.8.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.9.1 Uplink

6.10.2.4.1.9.1.1 Transport channel parameters

6.10.2.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|-------------------------|---------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | 60 | |
| | Max data rate, bps | 5900 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | 60 | |
| | TFS | TF0, bits | 0x55 (alt. 1x0) (note) | 0x63 | 0x60 |
| | | TF1, bits | 1x39 | 1x63 | N/A |
| | | TF2, bits | 1x55 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 225 | 213 | 0 | |
| | Uplink: Max number of bits/radio frame before rate matching | 113 | 107 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.9.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.9.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.9.2 Downlink

6.10.2.4.1.9.2.1 Transport channel parameters

6.10.2.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0 | 63 | 60 | |
| | | 39 | | | |
| | | 55 | | | |
| Max data rate, bps | 5900 | | | | |
| TrD PDU header, bit | 0 | | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 63 | 60 | |
| | | 39 | | | |
| | | 55 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x63 | 0x60 |
| | | TF1, bits | 1x39 | 1x63 | N/A |
| | | TF2, bits | 1x55 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC ½ | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 225 | 213 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.9.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.9.2.2 Physical channel parameters

| | | |
|---------------|------------------|--------------------------|
| DPCH Downlink | DTX position | Fixed |
| | Spreading factor | 256 |
| | DPCCH | Number of TFCI bits/slot |

| | | | |
|--|-------|---------------------------|-----|
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 2 |
| | DPDCH | Number of data bits/slot | 16 |
| | | Number of data bits/frame | 240 |

6.10.2.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

6.10.2.4.1.10.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|-------------------------|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | 60 | |
| | Max data rate, bps | 4750 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | 60 | |
| | TFS | TF0, bits | 0x49 (alt. 1x0) (note) | 0x54 | 0x60 |
| | | TF1, bits | 1x39 | 1x54 | N/A |
| | | TF2, bits | 1x49 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | 0 | |
| | Uplink: Max number of bits/radio frame before rate matching | 104 | 93 | 0 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: | In case of usign this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.10.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.10.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.10.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 128 |
| | Max number of DPDCH data bits/radio frame | 300 |
| | Puncturing Limit | 0.72 |

6.10.2.4.1.10.2 Downlink

6.10.2.4.1.10.2.1 Transport channel parameters

6.10.2.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|----------------|----------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0 | 54 | 60 | |
| | | 39 | | | |
| | | 49 | | | |
| Max data rate, bps | 5150 | | | | |
| TrD PDU header, bit | 0 | | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 | 54 | 60 | |
| | | 39 | | | |
| | | 49 | | | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x54 | 0x60 |
| | | TF1, bits | 1x39 | 1x54 | N/A |
| | | TF2, bits | 1x49 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.10.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.10.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.10.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 256 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 14 |
| | | Number of data bits/frame | 210 |

6.10.2.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.11.1 Uplink

6.10.2.4.1.11.1.1 Transport channel parameters

6.10.2.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|-------------------------|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | 60 | |
| | Max data rate, bps | 4750 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | 60 | |
| | TFS | TF0, bits | 0x42 (alt. 1x0) (note) | 0x53 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | N/A |
| | | TF2, bits | 1x42 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 186 | 183 | 0 | |
| | Uplink: Max number of bits/radio frame before rate matching | 93 | 92 | 0 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | In case of usign this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | |

6.10.2.4.1.11.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.11.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.11.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 128 |
| | Max number of DPDCH data bits/radio frame | 300 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.11.2 Downlink

6.10.2.4.1.11.2.1 Transport channel parameters

6.10.2.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|----------------|----------------|----------------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | TM |

| | | | | | |
|--|---|---------------|--------------|------------|------|
| | Payload sizes, bit | 0 39 42 | 53 | 60 | |
| | Max data rate, bps | 4750 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0 39 42 | 53 | 60 | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x53 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | N/A |
| | | TF2, bits | 1x42 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 186 | 183 | 0 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |

6.10.2.4.1.11.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.11.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.11.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 256 |
| | DPCCH | Number of TFCl bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 14 |
| | | Number of data bits/frame | 210 |

6.10.2.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

6.10.2.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| | Uplink: Max number of bits/radio frame before rate matching | 891 | |
| | RM attribute | 160 to 200 | |

6.10.2.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.12.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.12.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.92 |

6.10.2.4.1.12.2 Downlink

6.10.2.4.1.12.2.1 Transport channel parameters

6.10.2.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |

| | | |
|--|---|------------|
| | TF2, bits | 2x576 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 3 564 |
| | RM attribute | 160 to 200 |

6.10.2.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.12.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (28.8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.12.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.13.1 Uplink

6.10.2.4.1.13.1.1 Transport channel parameters

6.10.2.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

| | | | |
|--------------|---|-----------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 64 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640(alt. 4x640) |
| | TTI, ms | | 20(alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 948(alt. 7 884) |
| | Uplink: Max number of bits/radio frame before rate matching | | 1 974(alt. 1 971) |
| | RM attribute | | 150 to 195 |

6.10.2.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.1.

6.10.2.4.1.13.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.13.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.13.2 Downlink

6.10.2.4.1.13.2.1 Transport channel parameters

6.10.2.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

| | | | |
|--------------|---|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 64 000 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 640 | |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640(alt. 4x640) |
| | TTI, ms | 20(alt. 40) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 948(alt. 7 884) | |
| RM attribute | 150 to 195 | | |

6.10.2.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.13.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.13.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

- 6.10.2.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.14.1 Uplink
- 6.10.2.4.1.14.1.1 Transport channel parameters
- 6.10.2.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

| | | | |
|--------------|---|--------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 32 000 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 640 | |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 1x640(alt. 2x640) |
| | TTI, ms | 20(alt. 40) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 980 (alt. 3 948) | |
| | Uplink: Max number of bits/radio frame before rate matching | 990 (alt. 987) | |
| | RM attribute | 165 to 210 | |

- 6.10.2.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.13.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

- 6.10.2.4.1.14.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.80 |

- 6.10.2.4.1.14.2 Downlink

- 6.10.2.4.1.14.2.1 Transport channel parameters

- 6.10.2.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

| | | | |
|--------------|----------------------|-------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 32 000 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 640 | |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 1x640(alt. 2x640) |
| | TTI, ms | 20(alt. 40) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |

| | | |
|--|---|-------------------|
| | Max number of bits/TTI after channel coding | 1 980(alt. 3 948) |
| | RM attribute | 165 to 210 |

6.10.2.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.14.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.14.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.15.1 Uplink

6.10.2.4.1.15.1.1 Transport channel parameters

6.10.2.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 14 400 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 788 | |
| | Uplink: Max number of bits/radio frame before rate matching | 447 | |
| | RM attribute | 145 to 185 | |

6.10.2.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.15.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.15.1.2 Physical channel parameters

| | | |
|-------------|----------------------|----|
| DPCH Uplink | Min spreading factor | 64 |
|-------------|----------------------|----|

| | | |
|--|---|------|
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.15.2 Downlink

6.10.2.4.1.15.2.1 Transport channel parameters

6.10.2.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 14 400 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 788 | |
| | RM attribute | 145 to 185 | |

6.10.2.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.15.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.15.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCl bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 28 |
| | | Number of data bits/frame | 420 |

6.10.2.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.16.1 Uplink

6.10.2.4.1.16.1.1 Transport channel parameters

6.10.2.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

| | | |
|--------------|----------------------|--------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 576 |
| | Max data rate, bps | 28 800 |
| | TrD PDU header, bit | 0 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |

| | | | |
|--------------|---|------------|-------|
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 564 |
| | Uplink: Max number of bits/radio frame before rate matching | | 891 |
| RM attribute | | 135 to 175 | |

6.10.2.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.16.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.16.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.16.2 Downlink

6.10.2.4.1.16.2.1 Transport channel parameters

6.10.2.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

| | | | |
|---|---|------------|-------------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 28 800 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 (alt. 1x0) (note) |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 564 |
| RM attribute | | 135 to 175 | |
| NOTE: Alternative 1x0 is used to have CRC present in all transport formats. | | | |

6.10.2.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.16.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.16.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| Number of data bits/frame | | 900 | |

6.10.2.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.17.1 Uplink

6.10.2.4.1.17.1.1 Transport channel parameters

6.10.2.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

| | | | |
|---|---|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 57 600 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 7 116 |
| Uplink: Max number of bits/radio frame before rate matching | | 1 779 | |

6.10.2.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.17.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.17.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.17.2 Downlink

6.10.2.4.1.17.2.1 Transport channel parameters

6.10.2.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

| | | | |
|--------------|---|------------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 57 600 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 7 116 |
| RM attribute | | 125 to 165 | |

6.10.2.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.17.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.17.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.18 Void

6.10.2.4.1.19 Void

6.10.2.4.1.20 Void

6.10.2.4.1.21 Void

6.10.2.4.1.22 Void

6.10.2.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23.1 Uplink

6.10.2.4.1.23.1.1 Transport channel parameters

6.10.2.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|--------------------|------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 (alt. N/A) |
| | TTI, ms | 20 (alt. 10) | |
| | Coding type | TC (alt. CC 1/3) | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 1 080) | |
| | Uplink: Max number of bits/radio frame before rate matching | 1 062 (alt. 1 080) | |
| RM attribute | 135 to 175 | | |

6.10.2.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 (alt. 4) |
| TFCS | (32 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)) |

6.10.2.4.1.23.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.23.2 Downlink

6.10.2.4.1.23.2.1 Transport channel parameters

6.10.2.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| | | | |
|--------------|---|--------------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 8 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC (alt. CC 1/3) | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 068 (alt. 1 080) | |
| | RM attribute | 135 to 175 | |

6.10.2.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.23.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 32 |
| | | Number of data bits/frame | 480 |

6.10.2.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23a.1 Uplink

6.10.2.4.1.23a.1.1 Transport channel parameters

6.10.2.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| | | | |
|--------------|---|------------|--------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | | 40 |
| | Coding type | | CC 1/3 (alt. TC) |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 080 (alt. 1 068) |
| | Uplink: Max number of bits/radio frame before rate matching | | 270 (alt. 267) |
| RM attribute | | 135 to 175 | |

6.10.2.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23a.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.23a.1.2 Physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.23a.2 Downlink

6.10.2.4.1.23a.2.1 Transport channel parameters

6.10.2.4.1.23a.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| | | | |
|--------------|---|-----------|--------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | | 40 |
| | Coding type | | CC 1/3 (alt. TC) |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 080 (alt. 1 068) |
| | RM attribute | | 135 to 175 |

6.10.2.4.1.23a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23a.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.23a.2.2 Physical channel parameters

| | | | | |
|---------------|------------------|---------------------------|----------|-----|
| DPCH Downlink | DTX position | | Flexible | |
| | Spreading factor | | 128 | |
| | DPCCH | Number of TFCI bits/slot | | 2 |
| | | Number of TPC bits/slot | | 2 |
| | | Number of Pilot bits/slot | | 4 |
| | DPDCH | Number of data bits/slot | | 32 |
| | | Number of data bits/frame | | 480 |

6.10.2.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23b.1 Uplink

6.10.2.4.1.23b.1.1 Transport channel parameters

6.10.2.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 16 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |

| | | |
|--|---|------------|
| | TF2, bits | 2x336 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 2 124 |
| | Uplink: Max number of bits/radio frame before rate matching | 531 |
| | RM attribute | 135 to 175 |

6.10.2.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23b.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.23b.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.23b.2 Downlink

6.10.2.4.1.23b.2.1 Transport channel parameters

6.10.2.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 | |
| | RM attribute | 135 to 175 | |

6.10.2.4.1.23b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23b.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.23b.2.2 Physical channel parameters

| | | |
|---------------|--------------|----------|
| DPCH Downlink | DTX position | Flexible |
|---------------|--------------|----------|

| | | |
|-------|---------------------------|-----|
| | Spreading factor | 128 |
| DPCCH | Number of TFCl bits/slot | 2 |
| | Number of TPC bits/slot | 2 |
| | Number of Pilot bits/slot | 4 |
| DPDCH | Number of data bits/slot | 32 |
| | Number of data bits/frame | 480 |

6.10.2.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

6.10.2.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Uplink: Max number of bits/radio frame before rate matching | 1 059 | |
| RM attribute | 135 to 175 | | |

6.10.2.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23c.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.10.2.4.1.23c.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

6.10.2.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |

| | | | |
|---|---------------------|-----------|-------|
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 4 236 | | |
| RM attribute | 135 to 175 | | |

6.10.2.4.1.23c.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23c.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.10.2.4.1.23c.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-----|
| DPCH Downlink | DTX position | Flexible | |
| | Spreading factor | 64 | |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

6.10.2.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | 20 | |

| | | |
|--|---|------------|
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 2 124 |
| | Uplink: Max number of bits/radio frame before rate matching | 1 062 |
| | RM attribute | 135 to 175 |

6.10.2.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

6.10.2.4.1.23d.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

6.10.2.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 | |
| | RM attribute | 135 to 175 | |

6.10.2.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23d.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

6.10.2.4.1.23d.2.2 Physical channel parameters

| | | |
|---------------|------------------|--------------------------|
| DPCH Downlink | DTX position | Flexible |
| | Spreading factor | 64 |
| | DPCCCH | Number of TFCl bits/slot |

| | | | |
|--|-------|---------------------------|-----|
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.24 Void

6.10.2.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.25.1 Uplink

See clause 6.10.2.4.1.23.1.

6.10.2.4.1.25.2 Downlink

6.10.2.4.1.25.2.1 Transport channel parameters

6.10.2.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| | | | |
|---|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 64 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 4 236 | | |
| RM attribute | 130 to 170 | | |

6.10.2.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.25.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.25.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

- 6.10.2.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.26.1 Uplink
- 6.10.2.4.1.26.1.1 Transport channel parameters
- 6.10.2.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 64 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Uplink: Max number of bits/radio frame before rate matching | 2 118 | |
| RM attribute | 130 to 170 | | |

- 6.10.2.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.26.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

- 6.10.2.4.1.26.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.96 |

- 6.10.2.4.1.26.2 Downlink

See clause 6.10.2.4.1.25.2.

- 6.10.2.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.10.2.4.1.27.1 Uplink

See clause 6.10.2.4.1.26.1.

- 6.10.2.4.1.27.2 Downlink

- 6.10.2.4.1.27.2.1 Transport channel parameters

- 6.10.2.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 128 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 | |
| RM attribute | 120 to 160 | | |

6.10.2.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.27.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.27.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| | | Number of data bits/frame | 4 320 |

6.10.2.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.28.1 Uplink

6.10.2.4.1.28.1.1 Transport channel parameters

6.10.2.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

| | | |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 128 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |

| | | | |
|--------------|---|------------|-------|
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 8 460 |
| | Uplink: Max number of bits/radio frame before rate matching | | 4 230 |
| RM attribute | | 120 to 160 | |

6.10.2.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.28.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.28.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 8 |
| | Max number of DPDCH data bits/radio frame | 4 800 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.28.2 Downlink

See clause 6.10.2.4.1.27.2.

6.10.2.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.29.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.29.2 Downlink

6.10.2.4.1.29.2.1 Transport channel parameters

6.10.2.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|---------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 144 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| TF4, bits | | 8x336 | |

| | | |
|--|---|------------|
| | TF5, bits | 9x336 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 9 516 |
| | RM attribute | 140 to 180 |

6.10.2.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.29.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

6.10.2.4.1.29.2.2 Physical channel parameters

| | | | |
|---------------|---------------------------|--|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| DPCCH | Number of TFCI bits/slot | | 8 |
| | Number of TPC bits/slot | | 8 |
| | Number of Pilot bits/slot | | 16 |
| DPDCH | Number of data bits/slot | | 288 |
| | Number of data bits/frame | | 4 320 |

6.10.2.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.30.1 Uplink

6.10.2.4.1.30.1.1 Transport channel parameters

6.10.2.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

| | | | | |
|--------------|---|------------|---------|-------|
| Higher layer | RAB/Signalling RB | | RAB | |
| RLC | Logical channel type | | DTCH | |
| | RLC mode | | AM | |
| | Payload sizes, bit | | 320 | |
| | Max data rate, bps | | 144 000 | |
| | AMD PDU header, bit | | 16 | |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | DCH | |
| | TB sizes, bit | | 336 | |
| | TFS | TF0, bits | | 0x336 |
| | | TF1, bits | | 1x336 |
| | | TF2, bits | | 2x336 |
| | | TF3, bits | | 4x336 |
| | | TF4, bits | | 8x336 |
| | | TF5, bits | | 9x336 |
| | TTI, ms | | 20 | |
| | Coding type | | TC | |
| | CRC, bit | | 16 | |
| | Max number of bits/TTI after channel coding | | 9 516 | |
| | Uplink: Max number of bits/radio frame before rate matching | | 4 758 | |
| RM attribute | | 140 to 180 | | |

6.10.2.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.30.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

6.10.2.4.1.30.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 8 |
| | Max number of DPDCH data bits/radio frame | 4 800 |
| | Puncturing Limit | 0.84 |

6.10.2.4.1.30.2 Downlink

See clause 6.10.2.4.1.29.2.

6.10.2.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.31.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.31.2 Downlink

6.10.2.4.1.31.2.1 Transport channel parameters

6.10.2.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

| | | | |
|--------------|---|---------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 256 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | N/A (alt. 12x336) |
| | TF6, bits | N/A (alt. 16x336) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 (alt. 16 920) | |
| RM attribute | 135 to 175 | | |

6.10.2.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.31.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 (alt.14) |
| TFCS | (256 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)) |

| | |
|--|---|
| | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
|--|---|

6.10.2.4.1.31.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | Number of DPDCH | | 1 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| | | Number of data bits/frame | 9 120 |

6.10.2.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.32.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.32.2 Downlink

6.10.2.4.1.32.2.1 Transport channel parameters

6.10.2.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| | | | |
|---|----------------------|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | N/A (alt. 16x336) |
| | | TF7, bits | N/A (alt. 20x336) |
| | TF8, bits | N/A (alt. 24x336) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 12 684 (alt. 25 368) | | |
| RM attribute | 110 to 150 | | |

6.10.2.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.32.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 (alt.18) |
| TFCS | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |

| | |
|--|-------------|
| | (TF8, TF1)) |
|--|-------------|

6.10.2.4.1.32.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | Number of DPDCH | | 1 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| | | Number of data bits/frame | 9 120 |

6.10.2.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.33.1 Uplink

See clause 6.10.2.4.1.28.1.

6.10.2.4.1.33.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.34.1 Uplink

6.10.2.4.1.34.1.1 Transport channel parameters

6.10.2.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| | | | |
|---|---|-------------------|------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 384 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | 16x336(alt. N/A) |
| | | TF7, bits | 20x336(alt. N/A) |
| | TF8, bits | 24x336 (alt. N/A) | |
| | TTI, ms | | 20 (alt. 10) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 25 368 |
| Uplink: Max number of bits/radio frame before rate matching | | 12 684 | |
| RM attribute | | 110-180 | |

6.10.2.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.34.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 18 (alt.12) |
| TFCS | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)) |

6.10.2.4.1.34.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Number of DPDCH | 1 |
| | Puncturing Limit | 0.64 |

6.10.2.4.1.34.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.35.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.35.2 Downlink

6.10.2.4.1.35.2.1 Transport channel parameters

6.10.2.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

| | | | |
|--------------|----------------------|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 2 048 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | | TF4, bits | 8x656 |
| | | TF5, bits | 12x656 |
| | | TF6, bits | 16x656 |
| | | TF7, bits | 20x656 |
| | | TF8, bits | 24x656 |
| | | TF9, bits | 28x656 |
| | | TF10, bits | 32x656 |
| | | TF11, bits | N/A (alt. 36x656) |
| | | TF12, bits | N/A (alt. 40x656) |
| | | TF13, bits | N/A (alt. 44x656) |
| | | TF14, bits | N/A (alt. 48x656) |
| | | TF15, bits | N/A (alt. 52x656) |
| | | TF16, bits | N/A (alt. 56x656) |
| | | TF17, bits | N/A (alt. 60x656) |
| | TF18, bits | N/A (alt. 64x656) | |
| TTI, ms | 10 (alt. 20) | | |
| Coding type | TC | | |
| CRC, bit | 16 | | |

| | | |
|--|---|-----------------------|
| | Max number of bits/TTI after channel coding | 64 575 (alt. 129 141) |
| | RM attribute | 130 to 170 |

6.10.2.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.35.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 22 (alt.38) |
| TFCS | (2 048 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0),(TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1),(TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0)) |

6.10.2.4.1.35.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 4 |
| | Number of DPCH | | 3 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 1 248 |
| Number of data bits/frame | | 18 720 | |

6.10.2.4.1.36 Void

6.10.2.4.1.37 Void

6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38.1 Uplink

6.10.2.4.1.38.1.1 Transport channel parameters

6.10.2.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 (alt. 12) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)) |

6.10.2.4.1.38.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.38.2 Downlink

6.10.2.4.1.38.2.1 Transport channel parameters

6.10.2.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.23.2.1.1.

6.10.2.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.

6.10.2.4.1.38.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

6.10.2.4.1.38.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38a.1 Uplink

6.10.2.4.1.38a.1.1 Transport channel parameters

6.10.2.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | TTI, ms | | 20 |
| | Coding type | | CC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 0 |
| | Uplink: Max number of bits/radio frame before rate matching | | 0 |
| | RM attribute | | 130 to 170 |

6.10.2.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38a.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |

6.10.2.4.1.38a.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.64 |

6.10.2.4.1.38a.2 Downlink

6.10.2.4.1.38a.2.1 Transport channel parameters

6.10.2.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | TTI, ms | | 20 |
| | Coding type | | CC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 0 |

| | |
|--------------|------------|
| RM attribute | 130 to 170 |
|--------------|------------|

6.10.2.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |

6.10.2.4.1.38a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCl bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38b.1 Uplink

6.10.2.4.1.38b.1.1 Transport channel parameters

6.10.2.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 068 |
| | Uplink: Max number of bits/radio frame before rate matching | | 267 |
| | RM attribute | | 135 to 175 |

6.10.2.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38b.1.1.4 TFCS

| | |
|-----------|----|
| TFCS size | 12 |
|-----------|----|

| | |
|------|---|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |
|------|---|

6.10.2.4.1.38b.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.38b.2 Downlink

6.10.2.4.1.38b.2.1 Transport channel parameters

6.10.2.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 8 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 068 | |
| | RM attribute | 135 to 175 | |

6.10.2.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38b.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |

6.10.2.4.1.38b.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-----|
| DPCH Downlink | DTX position | Flexible | |
| | Spreading factor | 64 | |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

6.10.2.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.2.4.1.23c.1.1.1.

6.10.2.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38c.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1) |

6.10.2.4.1.38c.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

6.10.2.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.2.4.1.23c.2.1.1.

6.10.2.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38c.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0), |

| | |
|--|---|
| | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1) |
|--|---|

6.10.2.4.1.38c.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

6.10.2.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 2 142 | | |
| | RM attribute | 130 to 170 | | |

6.10.2.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38d.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |

6.10.2.4.1.38d.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

6.10.2.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB |
|--------------|---|--------------------------------|--------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |
| | Max data rate, bps | 64 000 | 64 000 |
| | AMD PDU header, bit | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 |
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 340 | |
| | TFS | TF0, bits | 0x340 |
| | | TF1, bits | 1x340 |
| | | TF2, bits | 2x340 |
| | | TF3, bits | 3x340 |
| | | TF4, bits | 4x340 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 284 | |
| | RM attribute | 130 to 170 | |

6.10.2.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38d.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), |

| | |
|--|--|
| | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
|--|--|

6.10.2.4.1.38d.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.38e Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38e.1 Uplink

6.10.2.4.1.38e.1.1 Transport channel parameters

6.10.2.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.2.4.1.38a.1.1.2.

6.10.2.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38e.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |

6.10.2.4.1.38e.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.84 |

6.10.2.4.1.38e.2 Downlink

6.10.2.4.1.38e.2.1 Transport channel parameters

6.10.2.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.2.4.1.38a.2.1.2

6.10.2.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38e.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

6.10.2.4.1.38e.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCl bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.38f Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38f.1 Uplink

6.10.2.4.1.38f.1.1 Transport channel parameters

6.10.2.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38f.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

6.10.2.4.1.38f.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 1.0 |

- 6.10.2.4.1.38f.2 Downlink
- 6.10.2.4.1.38f.2.1 Transport channel parameters
- 6.10.2.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

- 6.10.2.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2

- 6.10.2.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

- 6.10.2.4.1.38f.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

- 6.10.2.4.1.38f.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

- 6.10.2.4.1.38g Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.10.2.4.1.38g.1 Uplink

- 6.10.2.4.1.38g.1.1 Transport channel parameters

- 6.10.2.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

- 6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1.

- 6.10.2.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.38g.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |

| | |
|--|--|
| | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
|--|--|

6.10.2.4.1.38g.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

6.10.2.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.2.1.1.

6.10.2.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38g.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |

6.10.2.4.1.38g.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

6.10.2.4.1.38h Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38h.1 Uplink

6.10.2.4.1.38h.1.1 Transport channel parameters

6.10.2.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23c.1.1.1.

6.10.2.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38h.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF3,TF2,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), (TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF3,TF2,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1) |

6.10.2.4.1.38h.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.38h.2 Downlink

6.10.2.4.1.38h.2.1 Transport channel parameters

6.10.2.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23c.2.1.1.

6.10.2.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38h.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 48 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF4,TF3,TF0,TF2,TF0), (TF4,TF3,TF0,TF4,TF0), (TF3,TF2,TF0,TF0,TF0), (TF3,TF2,TF0,TF1,TF0), (TF3,TF2,TF0,TF2,TF0), (TF3,TF2,TF0,TF4,TF0), (TF2,TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), (TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF4,TF3,TF0,TF2,TF1), (TF4,TF3,TF0,TF4,TF1), (TF3,TF2,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF3,TF2,TF0,TF2,TF1), (TF3,TF2,TF0,TF4,TF1), (TF2,TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1,TF1), (TF2,TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1) |

6.10.2.4.1.38h.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.38i Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38i.1 Uplink

6.10.2.4.1.38i.1.1 Transport channel parameters

6.10.2.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38i.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 48 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |

6.10.2.4.1.38i.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.38i.2 Downlink

6.10.2.4.1.38i.2.1 Transport channel parameters

6.10.2.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38i.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |

6.10.2.4.1.38i.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.38j Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

6.10.2.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38j.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |

| | |
|--|---|
| | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
|--|---|

6.10.2.4.1.38j.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| Number of data bits/frame | | 4 320 | |

6.10.2.4.1.38k Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing)

6.10.2.4.1.38k.1 Uplink

6.10.2.4.1.38k.1.1 Transport channel parameters

6.10.2.4.1.38k.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38k.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38k.1.1.3 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38k.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38k.1.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 54 (alt. 24) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, 32kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), |

| | |
|--|--|
| | (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF0, TF2, TF0), (TF0, TF0, TF0, TF1, TF2, TF0), (TF1, TF0, TF0, TF1, TF2, TF0), (TF2, TF1, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF2, TF2, TF0), (TF1, TF0, TF0, TF2, TF2, TF0), (TF2, TF1, TF1, TF2, TF2, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF0, TF2, TF1), (TF0, TF0, TF0, TF1, TF2, TF1), (TF1, TF0, TF0, TF1, TF2, TF1), (TF2, TF1, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF2, TF2, TF1), (TF1, TF0, TF0, TF2, TF2, TF1), (TF2, TF1, TF1, TF2, TF2, TF1) (alt. (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1)) |
|--|--|

6.10.2.4.1.38k.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.8 |

6.10.2.4.1.38k.2 Downlink

6.10.2.4.1.38k.2.1 Transport channel parameters

6.10.2.4.1.38k.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38k.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23d.2.1.1.

6.10.2.4.1.38k.2.1.3 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23d.2.1.1.

6.10.2.4.1.38k.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.

6.10.2.4.1.38k.2.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 54 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, 32kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), |

| | |
|--|--|
| | (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF0, TF2, TF0), (TF0, TF0, TF0, TF1, TF2, TF0), (TF1, TF0, TF0, TF1, TF2, TF0), (TF2, TF1, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF2, TF2, TF0), (TF1, TF0, TF0, TF2, TF2, TF0), (TF2, TF1, TF1, TF2, TF2, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) |
|--|--|

6.10.2.4.1.38k.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

6.10.2.4.1.39.2 Downlink

6.10.2.4.1.39.2.1 Transport channel parameters

6.10.2.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.39.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |

| | |
|--|---|
| | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
|--|---|

6.10.2.4.1.39.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of Pilot bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| Number of data bits/frame | | 2 100 | |

6.10.2.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.40.1 Uplink

6.10.2.4.1.40.1.1 Transport channel parameters

6.10.2.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.40.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

6.10.2.4.1.40.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

6.10.2.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.41.2 Downlink

6.10.2.4.1.41.2.1 Transport channel parameters

6.10.2.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.41.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

6.10.2.4.1.41.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| Number of data bits/frame | | 4 320 | |

6.10.2.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.42.2 Downlink

6.10.2.4.1.42.2.1 Transport channel parameters

6.10.2.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.2.4.1.31.2.1.1.

6.10.2.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.42.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 (alt. 42) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |

6.10.2.4.1.42.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | Number of DPDCH | | 1 |
| | DPCCH | Number of TFCH bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| | | Number of data bits/frame | 9 120 |

6.10.2.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.43.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.43.2 Downlink

6.10.2.4.1.43.2.1 Transport channel parameters

6.10.2.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.2.4.1.32.2.1.1.

6.10.2.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.43.2.1.4 TFCS

| | |
|-----------|--------------|
| TFCS size | 36 (alt. 54) |
|-----------|--------------|

| | |
|------|---|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
|------|---|

6.10.2.4.1.43.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | Number of DPDCH | | 1 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| | | Number of data bits/frame | 9 120 |

6.10.2.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.44.1 Uplink

6.10.2.4.1.44.1.1 Transport channel parameters

6.10.2.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.44.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= |

| | |
|--|---|
| | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
|--|---|

6.10.2.4.1.44.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 8 |
| | Max number of DPDCH data bits/radio frame | 4 800 |
| | Puncturing Limit | 0.92 |

6.10.2.4.1.44.2 Downlink

6.10.2.4.1.44.2.1 Transport channel parameters

6.10.2.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.2.4.1.35.2.1.1.

6.10.2.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.44.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 4 |
| | Number of DPDCH | | 3 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 1 248 |
| Number of data bits/frame | | 18 720 | |

6.10.2.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.45.1 Uplink

6.10.2.4.1.45.1.1 Transport channel parameters

6.10.2.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.2.4.1.17.1.1.1.

6.10.2.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.45.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

6.10.2.4.1.45.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.45.2 Downlink

6.10.2.4.1.45.2.1 Transport channel parameters

6.10.2.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.2.4.1.17.2.1.1.

6.10.2.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.45.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

6.10.2.4.1.45.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.46 Void

6.10.2.4.1.47 Void

6.10.2.4.1.48 Void

6.10.2.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.49.1 Uplink

6.10.2.4.1.49.1.1 Transport channel parameters

6.10.2.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.49.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

6.10.2.4.1.49.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |

| | |
|------------------|------|
| Puncturing Limit | 0.72 |
|------------------|------|

6.10.2.4.1.49.2 Downlink

6.10.2.4.1.49.2.1 Transport channel parameters

6.10.2.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.11.

6.10.2.4.1.49.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

6.10.2.4.1.49.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| Number of data bits/frame | | 2 100 | |

6.10.2.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.49a.1 Uplink

6.10.2.4.1.49a.1.1 Transport channel parameters

6.10.2.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.49a.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), |

| | |
|--|---|
| | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
|--|---|

6.10.2.4.1.49a.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.72 |

6.10.2.4.1.49a.2 Downlink

6.10.2.4.1.49a.2.1 Transport channel parameters

6.10.2.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.49a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

6.10.2.4.1.49a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.50.1 Uplink

6.10.2.4.1.50.1.1 Transport channel parameters

6.10.2.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.50.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.50.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 8 |
| | Max number of DPDCH data bits/radio frame | 4 800 |
| | Puncturing Limit | 0.92 |

6.10.2.4.1.50.2 Downlink

6.10.2.4.1.50.2.1 Transport channel parameters

6.10.2.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.50.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.50.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| | | Number of data bits/frame | 4 320 |

6.10.2.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51.1 Uplink

6.10.2.4.1.51.1.1 Transport channel parameters

6.10.2.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

6.10.2.4.1.51.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 8 |
| | Max number of DPDCH data bits/radio frame | 4 800 |
| | Puncturing Limit | 0.88 |

6.10.2.4.1.51.2 Downlink

6.10.2.4.1.51.2.1 Transport channel parameters

6.10.2.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.51.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

6.10.2.4.1.51.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| | | Number of data bits/frame | 4 320 |

6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

6.10.2.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51a.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.51a.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.72 |

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

6.10.2.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.51a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.51a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51b.1 Uplink

6.10.2.4.1.51b.1.1 Transport channel parameters

6.10.2.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

| | | |
|--------------|-------------------|-----|
| Higher layer | RAB/Signalling RB | RAB |
|--------------|-------------------|-----|

| | | | |
|---|---|------------|--------|
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 16 000 |
| MAC | AMD PDU header, bit | | 16 |
| | MAC header, bit | | 0 |
| Layer 1 | MAC multiplexing | | N/A |
| | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 2 124 |
| Uplink: Max number of bits/radio frame before rate matching | | 531 | |
| RM attribute | | 135 to 175 | |

6.10.2.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51b.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |

6.10.2.4.1.51b.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.64 |

6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

6.10.2.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.52.1 Uplink

See clause 6.10.2.4.1.51.1.

6.10.2.4.1.52.2 Downlink

6.10.2.4.1.52.2.1 Transport channel parameters

6.10.2.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.52.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

6.10.2.4.1.52.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| Number of data bits/frame | | 9 120 | |

6.10.2.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.53.1 Uplink

6.10.2.4.1.53.1.1 Transport channel parameters

6.10.2.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.53.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

6.10.2.4.1.53.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Puncturing Limit | 0.96 |

6.10.2.4.1.53.2 Downlink

See clause 6.10.2.4.1.52.2.

6.10.2.4.1.54 Void

6.10.2.4.1.55 Void

6.10.2.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.56.1 Uplink

6.10.2.4.1.56.1.1 Transport channel parameters

6.10.2.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|-------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | | |
| | RM attribute | 135 to 175 | | |

6.10.2.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.56.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |

6.10.2.4.1.56.1.2 Physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.56.2 Downlink

6.10.2.4.1.56.2.1 Transport channel parameters

6.10.2.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|----------------------|--------------------------------|-------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |

| | | |
|--|---|------------|
| | Max number of bits/TTI after channel coding | 1 080 |
| | RM attribute | 135 to 175 |

6.10.2.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.56.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |

6.10.2.4.1.56.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 32 |
| | | Number of data bits/frame | 480 |

6.10.2.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.57.1 Uplink

6.10.2.4.1.57.1.1 Transport channel parameters

6.10.2.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|---|---|--------------------------------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| Uplink: Max number of bits/radio frame before rate matching | 2 142 | | | |
| RM attribute | 130 to 170 | | | |

6.10.2.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.57.1.1.3 TFCS

| | |
|-----------|------------------------------------|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= |

| | |
|--|---|
| | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
|--|---|

6.10.2.4.1.57.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.92 |

6.10.2.4.1.57.2 Downlink

6.10.2.4.1.57.2.1 Transport channel parameters

6.10.2.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| RM attribute | 130 to 170 | | | |

6.10.2.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.57.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.10.2.4.1.57.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | Flexible | |
| | Spreading factor | 32 | |
| | DPCCH | Number of TFC1 bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

- 6.10.2.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.58.1 Uplink
- 6.10.2.4.1.58.1.1 Transport channel parameters
- 6.10.2.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 068 | |
| | Uplink: Max number of bits/radio frame before rate matching | 534 | |
| | RM attribute | 135 to 175 | |

- 6.10.2.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

- 6.10.2.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.58.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (16 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) |

- 6.10.2.4.1.58.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 1.0 |

- 6.10.2.4.1.58.2 Downlink

- 6.10.2.4.1.58.2.1 Transport channel parameters

- 6.10.2.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| | | |
|--------------|----------------------|--------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 640 |
| | Max data rate, bps | 64 000 |
| | AM PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |

| | | |
|-----|---|------------|
| | TB sizes, bit | 656 |
| TFS | TF0, bits | 0x656 |
| | TF1, bits | 1x656 |
| | TF2, bits | 2x656 |
| | TF3, bits | 4x656 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8 076 |
| | RM attribute | 125 to 165 |

6.10.2.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.58.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 16 |
| TFCS | (64 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |

6.10.2.4.1.58.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.58a Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.58a.1 Uplink

6.10.2.4.1.58a.1.1 Transport channel parameters

6.10.2.4.1.58a.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.58.1.1.1.

6.10.2.4.1.58a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.58a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.58a.1.1.4 TFCS

See clause 6.10.2.4.1.58.1.1.4.

6.10.2.4.1.58a.1.2 Physical channel parameters

See clause 6.10.2.4.1.58.1.2.

6.10.2.4.1.58a.2 Downlink

6.10.2.4.1.58a.2.1 Transport channel parameters

6.10.2.4.1.58a.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 128 000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 3x656 |
| | | TF4, bits | 4x656 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 076 | |
| RM attribute | 125 to 165 | | |

6.10.2.4.1.58a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.58a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.58a.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (128 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), |

6.10.2.4.1.58a.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 16 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 288 |
| | | Number of data bits/frame | 4 320 |

6.10.2.4.1.59 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.59.1 Uplink

6.10.2.4.1.59.1.1 Transport channel parameters

6.10.2.4.1.59.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

| | | | |
|--------------|---|---------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 920, 304, 96 | |
| | Max data rate, bps | 46 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 928, 312, 104 | |
| | TFS | TF0, bits | 0x928 |
| | | TF1, bits | 1x104 |
| | | TF2, bits | 1x312 |
| | | TF3, bits | 1x928 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 844 | |
| | Uplink: Max number of bits/radio frame before rate matching | 1 422 | |
| | RM attribute | 180 to 220 | |

6.10.2.4.1.59.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB + UL:16 kbps / PS RAB

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 16 000 | 16 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2X340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 2 148 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 537 | | |
| | RM attribute | 135 to 175 | | |

6.10.2.4.1.59.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.59.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

6.10.2.4.1.59.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.59.2 Downlink

6.10.2.4.1.59.2.1 Transport channel parameters

6.10.2.4.1.59.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

| | | | |
|--------------|---|---------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 920, 304, 96 | |
| | Max data rate, bps | 46 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 928, 312, 104 | |
| | TFS | TF0, bits | 0x928 |
| | | TF1, bits | 1x104 |
| | | TF2, bits | 1x312 |
| | | TF3, bits | 1x928 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 844 | |
| RM attribute | 180 to 220 | | |

6.10.2.4.1.59.2.1.2 Transport channel parameters for Interactive / DL:16kbps / PS RAB + DL:16 kbps / PS RAB

| | | | | |
|---|----------------------|--------------------------------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 16 000 | 16 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| Max number of bits/TTI after channel coding | 2 148 | | | |
| RM attribute | 135 to 175 | | | |

6.10.2.4.1.59.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.59.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

6.10.2.4.1.59.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| Number of data bits/frame | | 2 100 | |

6.10.2.4.1.60 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.60.1 Uplink

6.10.2.4.1.60.1.1 Transport channel parameters

6.10.2.4.1.60.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

| | | | |
|--------------|---|---------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 920, 304, 96 | |
| | Max data rate, bps | 46 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 928, 312, 104 | |
| | TFS | TF0, bits | 0x928 |
| | | TF1, bits | 1x104 |
| | | TF2, bits | 1x312 |
| | | TF3, bits | 1x928 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 844 | |
| | Uplink: Max number of bits/radio frame before rate matching | 1 422 | |
| RM attribute | 180 to 220 | | |

6.10.2.4.1.60.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1

6.10.2.4.1.60.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.60.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

6.10.2.4.1.60.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.76 |

6.10.2.4.1.60.2 Downlink

6.10.2.4.1.60.2.1 Transport channel parameters

6.10.2.4.1.60.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

| | | | |
|--------------|---|---------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 920, 304, 96 | |
| | Max data rate, bps | 46 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 928, 312, 104 | |
| | TFS | TF0, bits | 0x928 |
| | | TF1, bits | 1x104 |
| | | TF2, bits | 1x312 |
| | | TF3, bits | 1x928 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 844 | |
| RM attribute | 180 to 220 | | |

6.10.2.4.1.60.2.1.2 Transport channel parameters for Interactive / DL:16kbps PS RAB

See clause 6.10.2.4.1.23b.2.1.1

6.10.2.4.1.60.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.60.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

6.10.2.4.1.60.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCl bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.10.2.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.61.1 Uplink

6.10.2.4.1.61.1.1 Transport channel parameters

6.10.2.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

| | | |
|--------------|-------------------|-----|
| Higher layer | RAB/Signalling RB | RAB |
|--------------|-------------------|-----|

| | | | |
|--|---|-----------|-------------------------|
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 8 000 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 328 (alt 0, 328) (note) |
| | TFS | TF0, bits | 0x328 (alt 1x0) (note) |
| | | TF1, bits | 1x328 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 044 |
| | Uplink: Max number of bits/radio frame before rate matching | | 261 |
| | RM attribute | | 135 to 175 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | |

6.10.2.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2

6.10.2.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.61.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.61.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 32 |
| | Max number of DPDCH data bits/radio frame | 1 200 |
| | Puncturing Limit | 1.0 |

6.10.2.4.1.61.2 Downlink

6.10.2.4.1.61.2.1 Transport channel parameters

6.10.2.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 328 (alt 0, 328) (note) |
| | TFS | TF0, bits | 0x328 (alt 1x0) (note) |
| | | TF1, bits | 1x328 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 044 |
| | RM attribute | | 135 to 175 |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.61.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.61.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 64 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 60 |
| | | Number of data bits/frame | 900 |

- 6.10.2.4.1.62 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH
- 6.10.2.4.1.62.1 Uplink
- 6.10.2.4.1.62.1.1 Transport channel parameters
- 6.10.2.4.1.62.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

| Higher layer | RAB/Signalling RB | | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 (note 2) |
|---|---|-----------|--|----------------|-------------------------|
| RLC | Logical channel type | | DTCH | | |
| | RLC mode | | TM | TM | TM |
| | Payload sizes, bit | | 40, 54, 64, 72 (alt. 0, 40, 54, 64, 72) | 78, 113, 181 | 60 |
| | Max data rate, bps | | 12 650 | | |
| | TrD PDU header, bit | | 0 | | |
| MAC | MAC header, bit | | 0 | | |
| | MAC multiplexing | | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| | TB sizes, bit | | 40, 54, 64, 72 (alt. 0, 40, 54, 64, 72) | 78, 113, 181 | 60 |
| | TFS | TF0, bits | 0x72(alt. 1x0) (note 1) | 0x181 | 0x60 |
| | | TF1, bits | 1x40 | 1x78 | N/A |
| | | TF2 bits | 1x54 | 1x113 | N/A |
| | | TF3, bits | 1x64 | 1x181 | N/A |
| | | TF4, bits | 1x72 | N/A | N/A |
| | TTI, ms | | 20 | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 | CC 1/3 |
| | CRC, bit | | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | | 276 | 567 | 0 |
| | Uplink: Max number of bits/radio frame before rate matching | | 138 | 284 | 0 |
| | RM attribute | | 180 to 220 | 170 to 210 | 256 |
| NOTE 1: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). | | | | | |
| NOTE 2: RAB subflow #3 does not exist in lu interface. UTRAN establishes this additional "dummy" subflow when the RAB for Wideband AMR is assigned. | | | | | |

- 6.10.2.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.62.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow #3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1) |

6.10.2.4.1.62.1.1.4 TFC subset list

| | |
|----------------------|---|
| TFC subset list size | 3 |
| TFC subset list | <p>0 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1)},</p> <p>1 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1)},</p> <p>2 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1)}</p> |

6.10.2.4.1.62.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.84 |

6.10.2.4.1.62.2 Downlink

6.10.2.4.1.62.2.1 Transport channel parameters

6.10.2.4.1.62.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 (note 3) | |
|---|----------------------|-------------------|----------------|-------------------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 0, 40, 54, 64, 72 | 78, 113, 181 | 60 | |
| | Max data rate, bps | 12 650 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 0, 40, 54, 64, 72 | 78, 113, 181 | 60 | |
| | TFS (note 1) | TF0, bits | 1x0 (note 2) | 0x181 | 0x60 |
| | | TF1, bits | 1x40 | 1x78 | N/A |
| | | TF2, bits | 1x54 | 1x113 | N/A |
| | | TF3, bits | 1x64 | 1x181 | N/A |
| | | TF4, bits | 1x72 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | N/A | |
| Max number of bits/TTI after channel coding | 276 | 567 | 0 | | |
| RM attribute | 180 to 220 | 170 to 210 | 256 | | |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

NOTE 2: RAB subflow #3 does not exist in lu interface. UTRAN establishes this additional "dummy" subflow when the RAB for Wideband AMR is assigned

6.10.2.4.1.62.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.62.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

| | | |
|--------------|----------------------|-------|
| Higher layer | RAB/signalling RB | SRB#5 |
| | User of Radio Bearer | RRC |
| RLC | Logical channel type | DCCH |
| | RLC mode | TM |
| | Payload sizes, bit | 3 |

| | | | |
|--------------|---|---------------------|----------------------|
| | Max data rate, bps | 150 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 3 (alt 0, 3) (note) | |
| | TFS | TF0, bits | 0x3 (alt 1x0) (note) |
| | | TF1, bits | 1x3 |
| | TTI, ms | 20 | |
| | Coding type | CC 1/3 | |
| | CRC, bit | 8 | |
| | Max number of bits/TTI before rate matching | 57 | |
| RM attribute | 155 to 256 | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE.

6.10.2.4.1.62.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH 3.4, DCCH 0.15)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1) |

6.10.2.4.1.62.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 0 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.10.2.4.1.63 Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.63.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.63.2 Downlink

6.10.2.4.1.63.2.1 Transport channel parameters

6.10.2.4.1.63.2.1.1 Transport channel parameters for Interactive or background / DL:768 kbps / PS RAB

| | | |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 768 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |

| | | | |
|---|---------------|---------------------|------------------|
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | 16x336 |
| | | TF7, bits | 20x336 |
| | | TF8, bits | 24x336 |
| | | TF9, bits | N/A (alt 28x336) |
| | | TF10, bits | N/A (alt 32x336) |
| | | TF11, bits | N/A (alt 36x336) |
| | | TF12, bits | N/A (alt 40x336) |
| | | TF13, bits | N/A (alt 44x336) |
| | TF14, bits | N/A (alt 48x336) | |
| TTI, ms | | 10 (alt 20) | |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 25 368 (alt 50 736) | |
| RM attribute | | 110 to 150 | |

6.10.2.4.1.63.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.63.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 18 (alt. 30) |
| TFCS | (768 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (alt . (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1)) |

6.10.2.4.1.63.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 8 |
| | Number of DPCH | | 2 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 8 |
| | | Number of Pilot bits/slot | 16 |
| | DPDCH | Number of data bits/slot | 608 |
| Number of data bits/frame | | 9 120 | |

6.10.2.4.2 Combinations on PDSCH and DPCH

6.10.2.4.2.1 Void

6.10.2.4.2.2 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.2.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.2.2 Downlink

6.10.2.4.2.2.1 Transport channel parameters

6.10.2.4.2.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| | | | | |
|---|----------------------|----------------------|--|-------------------|
| Higher layer | RAB/Signalling RB | | RAB | |
| RLC | Logical channel type | | DTCH | |
| | RLC mode | | AM | |
| | Payload sizes, bit | | 320 | |
| | Max data rate, bps | | 384 000 | |
| | AMD PDU header, bit | | 16 | |
| MAC | MAC header, bit | | 18 | |
| | MAC multiplexing | | Logical channel multiplexing on a frame by frame basis | |
| Layer 1 | TrCH type | | DSCH | |
| | TB sizes, bit | | 354 | |
| | TFS | TF0, bits | | 0x354 |
| | | TF1, bits | | 1x354 |
| | | TF2, bits | | 2x354 |
| | | TF3, bits | | 4 x354 |
| | | TF4, bits | | 8 x354 |
| | | TF5, bits | | 12 x354 |
| | | TF6, bits | | N/A (alt. 16x354) |
| | | TF7, bits | | N/A (alt. 20x354) |
| | | TF8, bits | | N/A (alt. 24x354) |
| | TTI, ms | | 10 (alt. 20) | |
| | Coding type | | TC | |
| | CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 13 332 (alt. 26 664) | | |
| RM attribute | | 110 to 150 | | |

6.10.2.4.2.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.2.1.3 TFCS

| | | |
|-------------------------------------|-----------|--|
| PDSCH | TFCS size | 6 (alt.9) |
| | TFCS | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8) |
| DPCH Downlink associated with PDSCH | TFCS size | 2 |
| | TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.2.2.2 Physical channel parameters

| | | | | |
|-------------------------------------|--------------------------|---------------------------|--|----|
| PDSCH | RAB or SRB, TrCh | | Interactive or background / 384 kbps / PS RAB, DSCH | |
| | DTX position | | N/A (SingleTrCH) | |
| | Minimum spreading factor | | 8 | |
| DPCH Downlink associated with PDSCH | RAB or SRB, TrCh | | 3.4 kbps SRB for DCCH, DCH | |
| | DTX position | | N/A (SingleTrCH) | |
| | Spreading factor | | 256 | |
| | DPCCH | Number of TFCI bits/slot | | 2 |
| | | Number of TPC bits/slot | | 2 |
| | | Number of Pilot bits/slot | | 4 |
| | DPDCH | Number of data bits/slot | | 12 |
| Number of data bits/frame | | 180 | | |

6.10.2.4.2.3 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.3.2 Downlink

6.10.2.4.2.3.2.1 Transport channel parameters

6.10.2.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB

| | | | |
|---|-----------------------|--|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 2 048 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 18 | |
| | MAC multiplexing | Logical channel multiplexing on a frame by frame basis | |
| Layer 1 | TrCH type | DSCH | |
| | TB sizes, bit | 674 | |
| | TFS | TF0, bits | 0x674 |
| | | TF1, bits | 1x674 |
| | | TF2, bits | 2x674 |
| | | TF3, bits | 4 x674 |
| | | TF4, bits | 8 x674 |
| | | TF5, bits | 12x674 |
| | | TF6, bits | 16x674 |
| | | TF7, bits | 20x674 |
| | | TF8, bits | 24x674 |
| | | TF9, bits | 28x674 |
| | | TF10, bits | 32x674 |
| | | TF11, bits | N/A (alt. 36x674) |
| | | TF12, bits | N/A (alt. 40x674) |
| | | TF13, bits | N/A (alt. 44x674) |
| | | TF14, bits | N/A (alt. 48x674) |
| | | TF15, bits | N/A (alt. 52x674) |
| | | TF16, bits | N/A (alt. 56x674) |
| | | TF17, bits | N/A (alt. 60x674) |
| | TF18, bits | N/A (alt. 64x674) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| CRC, bit | 16 | | |
| Max number of bits/TTI after channel coding | 66 300 (alt. 132 588) | | |
| RM attribute | 130 to 170 | | |

6.10.2.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.2.3.2.1.3 TFCS

| | | |
|---|-----------|--|
| PDSCH | TFCS size | 11 (alt.19) |
| | TFCS | 2 048 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18) |
| DPCH Downlink associated with PDSCH | TFCS size | 2 |
| | TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.2.3.2.2 Physical channel parameters

| | | | |
|--|--------------------------|--|---|
| PDSCH | RAB or SRB, TrCh | Interactive or background / 2 048 kbps / PS RAB, DSCH | |
| | DTX position | N/A (SingleTrCH) | |
| | Minimum spreading factor | 4 | |
| DPCH Downlink associated with PDSCH | RAB or SRB, TrCh | 3.4 kbps SRB for DCCH, DCH | |
| | DTX position | N/A (SingleTrCH) | |
| | Spreading factor | 256 | |
| | DPCCH | Number of TFCI bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |

| | | | |
|--|-------|---------------------------|-----|
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 12 |
| | | Number of data bits/frame | 180 |

6.10.2.4.2.4 Void

6.10.2.4.2.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

6.10.2.4.2.5.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.5.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.2.4.2.2.2.1.1.

6.10.2.4.2.5.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.5.2.1.4 TFCS

| | | |
|-------------------------------------|-----------|--|
| PDSCH | TFCS size | 6 (alt.9) |
| | TFCS | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8) |
| DPCH Downlink associated with PDSCH | TFCS size | 6 |
| | TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.2.5.2.2 Physical channel parameters

| | | | |
|-------------------------------------|--------------------------|---------------------------|--|
| PDSCH | RAB or SRB, TrCh | | Interactive or background / 384 kbps / PS RAB, DSCH |
| | DTX position | | N/A (SingleTrCh) |
| | Minimum spreading factor | | 8 |
| DPCH Downlink associated with PDSCH | RAB or SRB, TrCh | | Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH |
| | DTX position | | Fixed |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 32 |
| Number of data bits/frame | | 480 | |

6.10.2.4.2.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.6.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.6.2 Downlink

6.10.2.4.2.6.2.1 Transport channel parameters

6.10.2.4.2.6.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.6.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.2.4.2.3.2.1.1.

6.10.2.4.2.6.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.6.2.1.4 TFCS

| | | |
|-------------------------------------|-----------|--|
| PDSCH | TFCS size | 11 (alt.19) |
| | TFCS | 2 048 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18) |
| DPCH Downlink associated with PDSCH | TFCS size | 6 |
| | TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.2.6.2.2 Physical channel parameters

| | | | | |
|-------------------------------------|--------------------------|---------------------------|--|-----|
| PDSCH | RAB or SRB, TrCh | | Interactive or background / 2 048 kbps / PS RAB, DSCH | |
| | DTX position | | N/A (SingleTrCH) | |
| | Minimum spreading factor | | 4 | |
| DPCH Downlink associated with PDSCH | RAB or SRB, TrCh | | Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH | |
| | DTX position | | Fixed | |
| | Spreading factor | | 128 | |
| | DPCCH | Number of TFCI bits/slot | | 2 |
| | | Number of TPC bits/slot | | 2 |
| | | Number of Pilot bits/slot | | 4 |
| | DPDCH | Number of data bits/slot | | 32 |
| | | Number of data bits/frame | | 480 |

6.10.2.4.3 Combinations on SCCPCH

6.10.2.4.3.1 Stand-alone signalling RB for PCCH

6.10.2.4.3.1.1 Transport channel parameters

6.10.2.4.3.1.1.1 Transport channel parameter of SRB for PCCH

| | | | |
|--------------|----------------------|-----------|---------------------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | RRC |
| RLC | Logical channel type | | PCCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 240 (alt. 80) |
| | Max data rate, bps | | 24 000 (alt. 8 000) |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | PCH |
| | TB sizes, bit | | 240 (alt. 80) |
| | TFS | TF0, bts | 0x240 (alt. 0x80) |
| | | TF1, bits | 1x240 (alt. 1x80) |
| | TTI, ms | | 10 |
| | Coding type | | CC 1/2 |
| CRC, bit | | 16 | |

| | | |
|--|---|----------------|
| | Max number of bits/TTI before rate matching | 528 (alt. 208) |
| | RM attribute | 210 to 250 |

6.10.2.4.3.1.1.2 TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for PCCH = TF0, TF1 |

6.10.2.4.3.1.2 Physical channel parameters

| | | |
|--------|---------------------------|----------------|
| SCCPCH | TFCS size | 2 |
| | DTX position | Fixed |
| | Spreading factor | 128 (alt. 256) |
| | Number of TFCI bits/slot | 0 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 40 (alt. 20) |
| | Number of data bits/frame | 600 (alt. 300) |

6.10.2.4.3.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.2.1 Transport channel parameters

6.10.2.4.3.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| | | | |
|--------------|---|-----------|-----------------------------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | Interactive/ Background RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 32 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 24 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 360 |
| | TFS | TF0, bits | 0x360 |
| | | TF1, bits | 1x360 |
| | TTI, ms | | 10 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 1 140 |
| | RM attribute | | 110 to 150 |

6.10.2.4.3.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| | | | | | | | |
|--------------|-----------------------------|----------------------|--|----------------------|----------------------|----------------------|----------------------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH |
| | RLC mode | UM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 152 | 136 or 120 (note) | 128 | 128 | 128 | 166 |
| | Max data rate, bps | 30 400 (alt. 45 600) | 27 200 or 24 000 (alt. 40 800 or 36 000) | 25 600 (alt. 38 400) | 25 600 (alt. 38 400) | 25 600 (alt. 38 400) | 33 200 (alt. 49 800) |
| | AMD/UMD/TrD PDU header, bit | 8 | 8 | 16 | 16 | 16 | 0 |
| MAC | MAC header, bit | 8 | 24 or 40 | 24 | 24 | 24 | 2 |

| | | | | | | | | |
|---|----------------------|--------------------------------|------------------|-------|---------------------|--------------------|-------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | |
| | TB sizes, bit | 168 | | | | | | |
| | TFS | TF0, bits | 0x168 | | | | | |
| | | TF1, bits | 1x168 | | | | | |
| | | TF2, bits | 2x168 | | | | | |
| | | TF3, bits | N/A (alt. 3x168) | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| Max number of bits/TTI before rate matching | 752 (alt. 1 136) | | | | | | | |
| | RM attribute | 200 to 240 | | | | | | |
| NOTE: MAC header size and PLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | |

6.10.2.4.3.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 or 5, (alt. 4, 5 or 6) |
| TFCS | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB) = (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note)) |
| NOTE: | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF2, TF0). |

6.10.2.4.3.2.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 64 |
| | Number of TFCl bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 72 |
| | Number of data bits/frame | 1 080 |

6.10.2.4.3.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.2a.1 Transport channel parameters

6.10.2.4.3.2a.1.1 Transport channel parameters for Interactive or background / 32 kbps / PS RAB + 32 kbps / PS RAB

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 32 000 | 32 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 24 | 24 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 360 | | |
| | TFS | TF0, bits | 0x360 | |
| | | TF1, bits | 1x360 | |
| | TTI, ms | 10 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 140 | | |
| | RM attribute | 110 to 150 | | |

6.10.2.4.3.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

6.10.2.4.3.2a.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 or 5 (alt. 4, 5 or 6) |
| TFCS | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB + 32kbps RAB) = (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note)) |
| NOTE: | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF2, TF0). |

6.10.2.4.3.2a.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 64 |
| | Number of TFCI bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 72 |
| | Number of data bits/frame | 1 080 |

6.10.2.4.3.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.3.1 Transport channel parameters

6.10.2.4.3.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1.

6.10.2.4.3.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.

6.10.2.4.3.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

6.10.2.4.3.3.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 6, 7 or 8 for 240 bits PCH TrBlk size and TF3 not used (alt 6, 7, 8 or 9 for 80 bits PCH TrBlk size and TF3 not used) (alt 6, 7, 8 or 9 for 240 bits PCH TrBlk size and TF3 used) (alt. 6, 7, 8, 9, 10, or 11 for 80 bits PCH TrBlk size and TF3 used) |
| TFCS | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) = (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 not used (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 not used) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), [TF0, TF3, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 used) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), [TF0, TF3, TF0] (see note), [TF1, TF3, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 used) |
| NOTE: | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF0, TF2, TF0). |

6.10.2.4.3.3.2 Physical channel parameters

| | | |
|--------|------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 64 |

| | | |
|--|---------------------------|-------|
| | Number of TFCI bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 72 |
| | Number of data bits/frame | 1 080 |

6.10.2.4.3.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.2.4.3.4.1 Transport channel parameters

6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/signalling RB | | N/A |
| | User of Radio Bearer | | BMC |
| RLC | Logical channel type | | CTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 15 200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 168 |
| | TFS | TF0, bits | 0x168 |
| | | TF1, bits | 1x168 |
| | TTI, ms | | 10 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 576 |
| | RM attribute | | 200 to 240 |

6.10.2.4.3.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| | | | | |
|--------------|---|-----------|--------------------------------|--------|
| Higher layer | RAB/signalling RB | | SRB#0 | SRB#5 |
| | User of Radio Bearer | | RRC | RRC |
| RLC | Logical channel type | | CCCH | BCCH |
| | RLC mode | | UM | TM |
| | Payload sizes, bit | | 152 | 166 |
| | Max data rate, bps | | 15 200 | 16 600 |
| | AMD/UMD/TrD PDU header, bit | | 8 | 0 |
| MAC | MAC header, bit | | 8 | 2 |
| | MAC multiplexing | | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | | FACH | |
| | TB sizes, bit | | 168 | |
| | TFS | TF0, bits | 0x168 | |
| | | TF1, bits | 1x168 | |
| | TTI, ms | | 10 | |
| | Coding type | | CC 1/3 | |
| | CRC, bit | | 16 | |
| | Max number of bits/TTI before rate matching | | 576 | |
| | RM attribute | | 200 to 240 | |

6.10.2.4.3.4.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 3 |
| TFCS | (SRBs for CCCH/ BCCH, RB for CTCH) = (TF0, TF0), (TF1, TF0), (TF0, TF1) |

6.10.2.4.3.4.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 128 |
| | Number of TFCI bits/slot | 2 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 38 |
| | Number of data bits/frame | 570 |

6.10.2.4.3.5 64.8kbps RB for MTCH with 80 ms TTI

6.10.2.4.3.5.1 Transport channel parameters

6.10.2.4.3.5.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|---|----------------------|-----------|-------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | MBMS | |
| RLC | Logical channel type | MTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 648 | |
| | Max data rate, bps | 64800 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 8 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 664 | |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | TF8, bits | 8x664 | |
| | TTI, ms | 80 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI before rate matching | 16344 | | |
| RM attribute | 160 | | |

6.10.2.4.3.5.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 9 |
| TFCS | 64 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.10.2.4.3.5.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 32 |
| | Number of TFCI bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 152 |
| | Number of data bits/frame | 2280 |

6.10.2.4.3.6 129.6 kbps RB for MTCH with 80 ms TTI

6.10.2.4.3.6.1 Transport channel parameters

6.10.2.4.3.6.1.1 Transport channel parameters for 128 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 80 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI before rate matching | | 32679 | |
| RM attribute | | 160 | |

6.10.2.4.3.6.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.2.4.3.6.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 16 |
| | Number of TFCI bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 312 |
| | Number of data bits/frame | 4680 |

6.10.2.4.3.7 259.2 kbps RB for MTCH with 40 ms TTI

6.10.2.4.3.7.1 Transport channel parameters

6.10.2.4.3.7.1.1 Transport channel parameters for 256 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 259200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 40 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI before rate matching | | 32679 | |
| RM attribute | | 160 | |

6.10.2.4.3.7.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.2.4.3.7.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 8 |
| | Number of TFCI bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 632 |
| | Number of data bits/frame | 9480 |

6.10.2.4.3.8 7.6 kbps signalling RB for MCCH

6.10.2.4.3.8.1 Transport channel parameters

6.10.2.4.3.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 7600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 160 |
| | TFS | TF0, bits | 0x160 |
| | | TF1, bits | 1x160 |
| | TTI, ms | | 20 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 552 |
| RM attribute | | 160 | |

6.10.2.4.3.8.1.2 TFCS

| | |
|-----------|--------------------|
| TFCS size | 2 |
| TFCS | MBMS SRB =TF0, TF1 |

6.10.2.4.3.8.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 256 |
| | Number of TFCI bits/slot | 2 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 18 |
| | Number of data bits/frame | 270 |

6.10.2.4.3.9 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH + SRB for MCCH

6.10.2.4.3.9.1 Transport channel parameters

6.10.2.4.3.9.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1.1

6.10.2.4.3.9.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.1

6.10.2.4.3.9.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

6.10.2.4.3.9.1.4 Transport channel parameters of SRBs for MCCH

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 7600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 160 |
| | TFS | TF0, bits | 0x160 |
| | | TF1, bits | 1x160 |
| | TTI, ms | | 20 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 552 |
| | RM attribute | | 215 to 235 |

6.10.2.4.3.9.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 or 13 for 240 bits PCH TrBlk size and TF3 not used |
| TFCS | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB, SRB for MCCH) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF0, TF1, TF0, TF0), (TF1, TF1, TF0, TF0), (TF0, TF2, TF0, TF0), (TF0, TF0, TF1, TF0), (TF0, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF0, TF1, TF0, TF1), [TF1, TF1, TF0, TF1] (see note), (TF0, TF2, TF0, TF1), (TF0, TF0, TF1, TF1) for 240 bits PCH TrBlk size and TF3 not used |
| NOTE: | Some TFC's are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC (TF0, TF2, TF0, TF0). |

6.10.2.4.3.9.2 Physical channel parameters

| | | |
|--------|---------------------------|----------|
| SCCPCH | DTX position | Flexible |
| | Spreading factor | 64 |
| | Number of TFCl bits/slot | 8 |
| | Number of Pilot bits/slot | 0 |
| | Number of data bits/slot | 72 |
| | Number of data bits/frame | 1080 |

6.10.2.4.4 Combinations on PRACH

6.10.2.4.4.1 Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.2.4.4.1.1 Transport channel parameters

6.10.2.4.4.1.1.1 Transport channel parameter for Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

| | | | | | | | |
|--------------|----------------------|-----------------------------------|--------------------------------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 320 | 166/238 (Rel6, see Note) | 136 | 128 | 128 | 128 |

| | | | | | | | | |
|--------------|--|-----------------------------------|--|--------------------------|-----------------------|-----------------------|-----------------------|--|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | |
| | Max data rate, bps | 16 000 (alt. 32 000) | 8 300 /11900 Rel 6 (alt.16 600/23800 Rel6, see Note) | 6 800 (alt.13 600) | 6 400 (alt.12 800) | 6 400 (alt.12 800) | 6 400 (alt.12 800) | |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 24 | 2 | 24 | 24 | 24 | 24 | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 360 | 168/240 (Rel6, see Note) | 168 | 168 | 168 | 168 | |
| | TFS | TF0, bits | 1x168 | | | | | |
| | | TF1, bits | 1x360 | | | | | |
| | | TF2, bits (Rel 6, see Note) | 1x240 | | | | | |
| | TTI, ms | 20 (alt. 10) | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 768 | 384/528 (Rel 6, see Note) | 384 | 384 | 384 | 384 | |
| | Max number of bits/ Radio frame before rate matching | 384 (alt. 768) | 192/264 Rel 6 (alt. 384/5 28 Rel 6, see Note) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | |

6.10.2.4.4.1.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 2, 3 (in Rel 6 , see Note) |
| TFCS | 32 kbps + SRBs for CCCH/ DCCH = TF0, TF1, TF2 (in Rel 6 , see Note) |

6.10.2.4.4.1.2 Physical channel parameters

| | | |
|-------|-------------------------------------|------------------|
| PRACH | Minimum Spreading factor | 64 (alt. 32) |
| | Max number of data bits/radio frame | 600 (alt. 1 200) |
| | Puncturing Limit | 1 |

NOTE: In Release 6 UEs shall use the TF/TFC as indicated in the IE "Additional Dynamic Transport Format Information for CCCH" and the IE "Additional RACH TFCS for CCCH" for CCCH if available. In this configuration the indicated TF / TFC will be transmitted in these IEs.

6.10.2.4.4.2 Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.2.4.4.2.1 Transport channel parameters

6.10.2.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB, Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

| | | | | | | | | |
|--------------|----------------------|-----------------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | Interactive/ Background RAB | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DTCH | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |

| | | | | | | | | | |
|-----------------------------|--|--------------------------------|----------------------------|---|---------------------|---------------------|---------------------|---------------------|--|
| Higher layer | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
| | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | |
| | RLC mode | AM | AM | TM | UM | AM | AM | AM | |
| | Payload sizes, bit | 320 | 320 | 166/238 (Rel6, see Note) | 136 | 128 | 128 | 128 | |
| | Max data rate, bps | 16 000 (alt. 32 000) | 16 000 (alt. 32 000) | 83 000 / 11900 Rel 6 (alt. 16 600/23800 Rel6, see Note) | 6 800 (alt. 13 600) | 6 400 (alt. 12 800) | 6 400 (alt. 12 800) | 6 400 (alt. 12 800) | |
| AMD/UMD/TrD PDU header, bit | 16 | 16 | 0 | 8 | 16 | 16 | 16 | | |
| MAC | MAC header, bit | 24 | 24 | 2 | 24 | 24 | 24 | 24 | |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | | |
| | TB sizes, bit | 360 | 360 | 168/240 (Rel6, see Note) | 168 | 168 | 168 | 168 | |
| | TFS | TF0, bits | 1x168 | | | | | | |
| | | TF1, bits | 1x360 | | | | | | |
| | | TF2, bits | 1x240 | | | | | | |
| | TTI, ms | 20 (alt. 10) | | | | | | | |
| | Coding type | CC 1/2 | | | | | | | |
| | CRC, bit | 16 | | | | | | | |
| | Max number of bits/TTI after channel coding | 768 | 768 | 384/528 (Rel 6, see Note) | 384 | 384 | 384 | 384 | |
| | Max number of bits/ Radio frame before rate matching | 384 (alt. 768) | 384 (alt 768) | 192/264 (alt. 384/528 Rel 6, see Note) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | |

6.10.2.4.4.2.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 2, 3 (in Rel 6 , see Note) |
| TFCS | 32 kbps RAB+ 32 kbps RAB + SRBs for CCCH/ DCCH = TF0, TF1, TF2 (in Rel 6, see Note) |

6.10.2.4.4.2.2 Physical channel parameters

| | | |
|-------|-------------------------------------|------------------|
| PRACH | Minimum Spreading factor | 64 (alt. 32) |
| | Max number of data bits/radio frame | 600 (alt. 1 200) |
| | Puncturing Limit | 1 |

NOTE: In Release 6 UEs shall use the TF/TFC as indicated in the IE "Additional Dynamic Transport Format Information for CCCH" and the IE "Additional RACH TFCS for CCCH" for CCCH if available. In this configuration the indicated TF / TFC will be transmitted in these IEs.

- 6.10.2.4.4.3 (void)
- 6.10.2.4.4.3.1 (void)
- 6.10.2.4.4.3.1.1 (void)
- 6.10.2.4.4.3.1.1.1 (void)
- 6.10.2.4.4.3.1.1.2 (void)
- 6.10.2.4.4.3.1.2 (void)
- 6.10.2.4.4.3.2 (void)
- 6.10.2.4.4.3.2.1 (void)
- 6.10.2.4.4.3.2.1.1 (void)
- 6.10.2.4.4.3.2.1.1.1 (void)
- 6.10.2.4.4.3.2.1.1.2 (void)
- 6.10.2.4.4.3.2.2 (void)
- 6.10.2.4.4.3.2.2.1 Physical (void)

6.10.2.4.5 Combinations on DPCH and HS-PDSCH

- 6.10.2.4.5.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.5.1.1 Uplink
- See clause 6.10.2.4.1.26.1.
- 6.10.2.4.5.1.2 Downlink
- 6.10.2.4.5.1.2.1 Transport channel parameters
- 6.10.2.4.5.1.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--------------|---------------------------------------|---|--|---|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 (alt. 640) | 320 (alt. 640) | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 (alt. 656) | 336 (alt. 656) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/MAC-ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms | 2 ms |
| | Coding type | TC | TC | TC |

| | | | | |
|--|---------------------------------|----------------|--------------------------|--------------------------|
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

6.10.2.4.5.1.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.1.2.2 Physical channel parameters

6.10.2.4.5.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.1.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.2 Mbps, (alt. 400 kbps) |

UE HS-DSCH Physical Layer category 2 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.2 Mbps, (alt. 600 kbps)] |

UE HS-DSCH Physical Layer category 3 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.8 Mbps, (alt. 900 kbps) |

UE HS-DSCH Physical Layer category 4 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.8 Mbps, (alt. 1.2 Mbps) |

UE HS-DSCH Physical Layer category 5 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.65 Mbps, (alt. 3.6 Mbps) |

UE HS-DSCH Physical Layer category 6 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.65 Mbps, (alt. 3.65 Mbps) |

UE HS-DSCH Physical Layer category 7 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 7.2 Mbps, (alt. 7.2 Mbps) |

UE HS-DSCH Physical Layer category 8 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 7.2 Mbps, (alt. 7.2 Mbps) |

UE HS-DSCH Physical Layer category 9 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 10.1 Mbps, (alt. 10.1 Mbps) |

UE HS-DSCH Physical Layer category 10 (Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 14.0 Mbps, (alt. 10.8 Mbps) |

UE HS-DSCH Physical Layer category 11 (Rel-5 and later releases; QPSK):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 900 kbps, (alt. 450 kbps) |

UE HS-DSCH Physical Layer category 12 (Rel-5 and later releases; QPSK):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.8 Mbps, (alt. 1.8 Mbps) |

UE HS-DSCH Physical Layer category 13 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 17.6 Mbps, (alt. 16.2 Mbps) |

UE HS-DSCH Physical Layer category 14 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 21.1 Mbps, (alt. 16.2 Mbps) |

UE HS-DSCH Physical Layer category 15 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 11.7 Mbps, (alt. 11.7Mbps) |

UE HS-DSCH Physical Layer category 15 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 23.4 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 16 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 14.0 Mbps, (alt. 14.0 Mbps) |

UE HS-DSCH Physical Layer category 16 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 28,0 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 17 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 17.6 Mbps, (alt. 16.2 Mbps) |

UE HS-DSCH Physical Layer category 17 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 23,4 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 18 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 21.1 Mbps, (alt. 16.2 Mbps) |

UE HS-DSCH Physical Layer category 18 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 28.0 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 19 (Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 35.3 Mbps, (alt. 32.4 Mbps) |

UE HS-DSCH Physical Layer category 20 (Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |

| | | |
|--|---------------|-----------------------------|
| | Max Data Rate | 42.2 Mbps, (alt. 32.4 Mbps) |
|--|---------------|-----------------------------|

UE HS-DSCH Physical Layer category 21 (Rel-8 and later releases; Dual-Cell + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 23.4 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 22 (Rel-8 and later releases; Dual-Cell + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 28.0 Mbps, (alt. 21.6 Mbps) |

UE HS-DSCH Physical Layer category 23 (Rel-8 and later releases; Dual-Cell + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 35.3 Mbps, (alt. 32.4 Mbps) |

UE HS-DSCH Physical Layer category 24 (Rel-8 and later releases; Dual-Cell + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 42.2 Mbps, (alt. 32.4 Mbps) |

UE HS-DSCH Physical Layer category 25 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 46.7 Mbps, (alt. 43.2 Mbps) |

UE HS-DSCH Physical Layer category 26 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 55.9 Mbps, (alt. 43.2 Mbps) |

UE HS-DSCH Physical Layer category 27 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 70.6 Mbps, (alt. 64.8 Mbps) |

UE HS-DSCH Physical Layer category 28 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 84.4 Mbps, (alt. 64.8 Mbps) |

6.10.2.4.5.1a Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.1a.1 Uplink

See clause 6.10.2.4.1.28.1.

- 6.10.2.4.5.1a.2 Downlink
- 6.10.2.4.5.1a.2.1 Transport channel parameters
- 6.10.2.4.5.1a.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.1a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.10.2.4.5.1.2.1.1.1.
- 6.10.2.4.5.1a.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.1a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.1a.2.1.2.2 TFCS
- See clause 6.10.2.4.1.2.2.1.2.
- 6.10.2.4.5.1a.2.2 Physical channel parameters
- 6.10.2.4.5.1a.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.1.2.2.2.
- 6.10.2.4.5.1a.2.2.2 Physical channel parameters on HS-PDSCH
- See clause 6.10.2.4.5.1.2.2.2.
- 6.10.2.4.5.2 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.5.2.1 Uplink
- See clause 6.10.2.4.1.34.1.
- 6.10.2.4.5.2.2 Downlink
- 6.10.2.4.5.2.2.1 Transport channel parameters
- 6.10.2.4.5.2.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.10.2.4.5.1.2.1.1.1.
- 6.10.2.4.5.2.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.2.2.1.2.2 TFCS
- See clause 6.10.2.4.1.2.2.1.2.
- 6.10.2.4.5.2.2.2 Physical channel parameters
- 6.10.2.4.5.2.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.1.2.2.2.
- 6.10.2.4.5.2.2.2.2 Physical channel parameters on HS-PDSCH
- See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.3.1 Uplink

6.10.2.4.5.3.1.1 Transport channel parameters

6.10.2.4.5.3.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.5.3.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.2.4.1.34.1.1.1.

6.10.2.4.5.3.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.3.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 54 (alt. 36) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)) |

6.10.2.4.5.3.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Number of DPDCH | 1 |
| | Puncturing Limit | 0.60 |

6.10.2.4.5.3.2 Downlink

6.10.2.4.5.3.2.1 Transport channel parameters

- 6.10.2.4.5.3.2.1.1 Transport channel parameters for HS-DSCH
See clause 6.10.2.4.5.1.2.1.1.1.
- 6.10.2.4.5.3.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.3.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4.2.1.1.
- 6.10.2.4.5.3.2.1.2.2 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH
See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.3.2.1.2.3 TFCS
See clause 6.10.2.4.1.4.2.1.3.
- 6.10.2.4.5.3.2.2 Physical channel parameters
- 6.10.2.4.5.3.2.2.1 Physical channel parameters on DPCH
See clause 6.10.2.4.1.4.2.2.
- 6.10.2.4.5.3.2.2.2 Physical channel parameters on HS-PDSCH
See clause 6.10.2.4.5.1.2.2.2.
- 6.10.2.4.5.3a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.5.3a.1 Uplink
See clause 6.10.2.4.1.40.1.
- 6.10.2.4.5.3a.2 Downlink
- 6.10.2.4.5.3a.2.1 Transport channel parameters
- 6.10.2.4.5.3a.2.1.1 Transport channel parameters for HS-DSCH
See clause 6.10.2.4.5.1.2.1.1.
- 6.10.2.4.5.3a.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.3a.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4.2.1.1.
- 6.10.2.4.5.3a.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.3a.2.1.2.3 TFCS
See clause 6.10.2.4.1.4.2.1.3.
- 6.10.2.4.5.3a.2.2 Physical channel parameters
- 6.10.2.4.5.3a.2.2.1 Physical channel parameters on DPCH
See clause 6.10.2.4.1.4.2.2.
- 6.10.2.4.5.3a.2.2.2 Physical channel parameters on HS-PDSCH
See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.4 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.4.1 Uplink

6.10.2.4.5.4.1.1 Transport channel parameters

6.10.2.4.5.4.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.5.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.2.4.1.34.1.1.1.

6.10.2.4.5.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.4.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 36 (alt. 24) |
| TFCS | (64 kbps RAB, 384 kbps RAB , DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1)) |

6.10.2.4.5.4.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Number of DPDCH | 1 |
| | Puncturing Limit | 0.52 |

6.10.2.4.5.4.2 Downlink

6.10.2.4.5.4.2.1 Transport channel parameters

6.10.2.4.5.4.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.4.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.4.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.5.4.2.1.2.2 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.4.2.1.2.3 TFCS

See clause 6.10.2.4.1.13.2.1.3.

6.10.2.4.5.4.2.2 Physical channel parameters

6.10.2.4.5.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.13.2.2.

6.10.2.4.5.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.4a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.4a.1 Uplink

See clause 6.10.2.4.1.51.1.

6.10.2.4.5.4a.2 Downlink

6.10.2.4.5.4a.2.1 Transport channel parameters

6.10.2.4.5.4a.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.

6.10.2.4.5.4a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.4a.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.5.4a.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.4a.2.1.2.3 TFCS

See clause 6.10.2.4.1.13.2.1.3.

6.10.2.4.5.4a.2.2 Physical channel parameters

6.10.2.4.5.4a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.13.2.2.

6.10.2.4.5.4a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.5 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.5.5.1 Uplink

6.10.2.4.5.5.1.1 Transport channel parameters

6.10.2.4.5.5.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB |
|--------------|----------------------|---------|---------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |
| | Max data rate, bps | 384 000 | 384 000 |
| | AMD PDU header, bit | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 |

| | | | |
|----------|---|--------------------------------|--------|
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 340 | |
| | TFS | TF0, bits | 0x340 |
| | | TF1, bits | 1x340 |
| | | TF2, bits | 2x340 |
| | | TF3, bits | 4x340 |
| | | TF4, bits | 8x340 |
| | | TF5, bits | 12x340 |
| | TTI, ms | 10 | |
| | Coding type | TC | |
| CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 12 828 | |
| | Uplink: Max number of bits/radio frame before rate matching | 12 828 | |
| | RM attribute | 110-180 | |

6.10.2.4.5.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.5.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (384 kbps RAB + 384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

6.10.2.4.5.5.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Number of DPDCH | 1 |
| | Puncturing Limit | 0.64 |

6.10.2.4.5.5.2 Downlink

6.10.2.4.5.5.2.1 Transport channel parameters

6.10.2.4.5.5.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.5.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.5.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.5.2.2 Physical channel parameters

6.10.2.4.5.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.5a Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.5a.1 Uplink

See clause 6.10.2.4.1.57.1.

6.10.2.4.5.5a.2 Downlink

6.10.2.4.5.5a.2.1 Transport channel parameters

6.10.2.4.5.5a.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.5a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5a.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.5a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.5a.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.5a.2.2 Physical channel parameters

6.10.2.4.5.5a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.5a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.6 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.6.1 Uplink

6.10.2.4.5.6.1.1 Transport channel parameters

6.10.2.4.5.6.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB | |
|--------------|---|-----------|-------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 128000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8076 | |
| | Uplink: Max number of bits/radio frame before rate matching | 4038 | |
| RM attribute | 125-165 | | |

6.10.2.4.1.6.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.6.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 40 |
| TFCS | (128 kbps RAB, 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.10.2.4.1.6.1.2 Physical channel parameters

| | | |
|-------------|---|------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9600 |
| | Puncturing Limit | 0.96 |

- 6.10.2.4.5.6.2 Downlink
- 6.10.2.4.5.6.2.1 Transport channel parameters
- 6.10.2.4.5.6.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.6.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--|---------------------------------------|---|--|---|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 640 (alt. 320) | 640 (alt. 320) | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 656 (alt. 336) | 656 (alt. 336) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/MAC-ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms | 2 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

- 6.10.2.4.5.6.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

- 6.10.2.4.5.6.2.1.2 Transport channel parameters for DCH

- 6.10.2.4.5.6.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

- 6.10.2.4.5.6.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.6.2.2 Physical channel parameters

6.10.2.4.5.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.7 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.7.1 Uplink

6.10.2.4.5.7.1.1 Transport channel parameters

6.10.2.4.5.7.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.5.7.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.2.4.5.6.1.1.1.

6.10.2.4.1.7.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.7.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.7.1.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 62 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0), (TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0), (TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0), (TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0), (TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0), (TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0), (TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0), (TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1), (TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1), (TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1), (TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1), (TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1), (TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1), (TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1), (TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

6.10.2.4.1.7.1.2 Physical channel parameters

| | | |
|----------------|---|------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9600 |
| | Puncturing Limit | 0.88 |

6.10.2.4.5.7.2 Downlink

6.10.2.4.5.7.2.1 Transport channel parameters

6.10.2.4.5.7.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.7.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.2.4.5.6.2.1.1.1.

6.10.2.4.5.7.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.7.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.7.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.5.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.7.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

6.10.2.4.5.7.2.2 Physical channel parameters

6.10.2.4.5.7.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.8 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.5.8.1 Uplink

6.10.2.4.5.8.1.1 Transport channel parameters

6.10.2.4.5.8.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

See clause 6.10.2.4.1.62.1.1.1

6.10.2.4.5.8.1.1.2 Transport Channel parameters for Interactive or background / UL: 384 kbps / PS RAB

| | | |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 384 000 |

| | | | |
|---|---------------------|-----------|--------|
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | TTI, ms | 10 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 12 684 | | |
| Uplink: Max number of bits/radio frame before rate matching | 12 684 | | |
| RM attribute | 110 to 180 | | |

6.10.2.4.5.8.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.8.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | <p>((RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),</p> <p>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1),</p> <p>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1),</p> <p>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1),</p> <p>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1),</p> <p>(TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF3,TF2,TF0,TF5,TF0), (TF4,TF3,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1), (TF4,TF3,TF0,TF5,TF1)</p> |

6.10.2.4.5.8.1.1.5 TFC subset list

| | |
|----------------------|---|
| TFC subset list size | 3 |
| TFC subset list | <p>0 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1)},}</p> <p>1 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF3,TF2,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1)},}</p> <p>2 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF3,TF2,TF0,TF5,TF0), (TF4,TF3,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1), (TF4,TF3,TF0,TF5,TF1)},}</p> |

6.10.2.4.5.8.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 4 |
| | Max number of DPDCH data bits/radio frame | 9 600 |
| | Number of DPDCH | 1 |
| | Puncturing Limit | 0.60 |

- 6.10.2.4.5.8.2 Downlink
- 6.10.2.4.5.8.2.1 Transport channel parameters
- 6.10.2.4.5.8.2.1.1 Transport channel parameters for HS-DSCH
- See clause 6.10.2.4.5.1.2.1.1
- 6.10.2.4.5.8.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.8.2.1.2.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB
- See clause 6.10.2.4.1.62.2.1.1
- 6.10.2.4.5.8.2.1.2.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1
- 6.10.2.4.5.8.2.1.2.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH
- See clause 6.10.2.4.1.62.2.1.3
- 6.10.2.4.5.8.2.1.2.4 TFCS
- See clause 6.10.2.4.1.62.2.1.4
- 6.10.2.4.5.8.2.2 Physical channel parameters
- 6.10.2.4.5.8.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.1.62.2.2
- 6.10.2.4.5.8.2.2.2 Physical Channel parameters on HS-PDSCH
- See clause 6.10.2.4.5.1.2.2.1
- 6.10.2.4.5.9 Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.5.9.1 Uplink
- 6.10.2.4.5.9.1.1 Transport channel parameters
- 6.10.2.4.5.9.1.1.1 Transport channel parameters for Streaming MBMS PTP / unknown / UL:16 kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB | |
|--------------|---|-----------|-------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1068 | |
| | Uplink: Max number of bits/radio frame before rate matching | 534 | |
| | RM attribute | 135-175 | |

6.10.2.4.5.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.9.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.5.9.1.2 Physical channel parameters

| | | |
|----------------|--|------|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 0.80 |

- 6.10.2.4.5.9.2 Downlink
- 6.10.2.4.5.9.2.1 Transport channel parameters
- 6.10.2.4.5.9.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.9.2.1.1.1 MAC-d flow parameters for Streaming MBMS PTP / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--|---------------------------------|---|--|---|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 640 | 640 | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 656 | 656 | Flexible |
| | MAC-hs/MAC-ehs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms | 2 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| <p>NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).</p> <p>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.</p> <p>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits.</p> | | | | |

- 6.10.2.4.5.9.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.9.2.1.2.2 TFCS
- See clause 6.10.2.4.1.2.2.1.2.
- 6.10.2.4.5.9.2.2 Physical channel parameters
- 6.10.2.4.5.9.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.10 Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.10.1 Uplink

6.10.2.4.5.10.1.1 Transport channel parameters

6.10.2.4.5.10.1.1.1 Transport channel parameters for Streaming MBMS PTP / unknown / UL:16 kbps / PS RAB

See clause 6.10.2.4.5.9.1.1.1.

6.10.2.4.5.10.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.2.4.1.57.1.1.1.

6.10.2.4.5.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.10.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (16 kbps RAB, 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1) |

6.10.2.4.5.10.1.2 Physical channel parameters

| | | |
|----------------|---|------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2400 |
| | Puncturing Limit | 0.68 |

6.10.2.4.5.10.2 Downlink

6.10.2.4.5.10.2.1 Transport channel parameters

6.10.2.4.5.10.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.10.2.1.1.1 MAC-d flow parameters for Streaming MBMS PTP / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.2.4.5.9.2.1.1.1.

6.10.2.4.5.10.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.10.2.1.1.3 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.10.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.10.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.10.2.2 Physical channel parameters

6.10.2.4.5.10.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6 Combinations on HS-PDSCH and E-DPDCH

6.10.2.4.6.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.10.2.4.6.1.1 Uplink

6.10.2.4.6.1.1.1 Transport channel parameters

6.10.2.4.6.1.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 2 | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 2 |
|--|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 (alt 640) | 320 (alt 640) | Flexible from 80 up to 12000 (NOTE 3) |
| | Max data rate, bps | Depends on UE category and TTI | | |
| | AMD PDU header, bit | 16 | | |
| MAC | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 (alt 656) | 336 (alt 656) | Flexible from 96 up to 12016 |
| | MAC type | MAC-e/es | MAC-i/is | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 or 32 (NOTE 4) | 24 or 32 (NOTE 4) |
| Layer 1 | TrCH type | E-DCH | | |
| | TTI | 10ms (alt. 2ms) (NOTE 1) | | |
| | Coding type | TC | | |
| | CRC, bit | 24 | | |
| NOTE 1: The support of 2ms TTI depends on the UE E-DCH physical layer category. For UE E-DCH physical layer categories 8 and 9 only 2 ms TTI is valid. | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |
| NOTE 4: MAC-i/is fixed header size is 24 bits for single cell E-DCH operation (TSN field length is 6 bits) or 32 bits for Dual Cell E-DCH operation (TSN field length is 14 bits). | | | | |

6.10.2.4.6.1.1.1.2 Transport channel parameters for DCH

6.10.2.4.6.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.6.1.1.2 Physical channel parameters

6.10.2.4.6.1.1.2.1 Physical channel parameters on E-DPDCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DPDCH Physical Layer category 1:

| | | | |
|---------|---------------------|------------|--|
| E-DPDCH | Number of processes | 4 | |
| | Modulation | QPSK | |
| | TTI | 10 ms | |
| | Max Data Rate | 0.711 Mbps | |

UE E-DPDCH Physical Layer category 2:

| | | | |
|---------|---------------------|-------------|------------|
| E-DPDCH | Number of processes | 4 | 8 |
| | Modulation | QPSK | QPSK |
| | TTI | 10 ms | 2 ms |
| | Max Data Rate | 1.4484 Mbps | 1.399 Mbps |

UE E-DPDCH Physical Layer category 3:

| | | |
|---------|---------------------|---|
| E-DPDCH | Number of processes | 4 |
|---------|---------------------|---|

| | | |
|--|---------------|-------------|
| | Modulation | QPSK |
| | TTI | 10 ms |
| | Max Data Rate | 1.4484 Mbps |

UE E-DPDCH Physical Layer category 4:

| | | | |
|---------|---------------------|----------|-------------|
| E-DPDCH | Number of processes | 4 | 8 |
| | Modulation | QPSK | QPSK |
| | TTI | 10 ms | 2 ms |
| | Max Data Rate | 2.0 Mbps | 2.2886 Mbps |

UE E-DPDCH Physical Layer category 5:

| | | |
|---------|---------------------|----------|
| E-DPDCH | Number of processes | 4 |
| | Modulation | QPSK |
| | TTI | 10 ms |
| | Max Data Rate | 2.0 Mbps |

UE E-DPDCH Physical Layer category 6:

| | | | |
|---------|---------------------|----------|-----------|
| E-DPDCH | Number of processes | 4 | 8 |
| | Modulation | QPSK | QPSK |
| | TTI | 10 ms | 2 ms |
| | Max Data Rate | 2.0 Mbps | 5.742Mbps |

UE E-DPDCH Physical Layer category 7 (QPSK or 16QAM):

| | | | |
|---------|---------------------|----------|--------------|
| E-DPDCH | Number of processes | 4 | 8 |
| | Modulation | QPSK | QPSK (16QAM) |
| | TTI | 10 ms | 2 ms |
| | Max Data Rate | 2.0 Mbps | 11.498 Mbps |

UE E-DPDCH Physical Layer category 8 (Dual-cell + QPSK):

| | | |
|---------|---------------------|-------------|
| E-DPDCH | Number of processes | 8 |
| | Modulation | QPSK |
| | TTI | 2 ms |
| | Max Data Rate | 11.484 Mbps |

UE E-DPDCH Physical Layer category 9 (Dual-cell + QPSK or 16QAM):

| | | |
|---------|---------------------|--------------|
| E-DPDCH | Number of processes | 8 |
| | Modulation | QPSK (16QAM) |
| | TTI | 2 ms |
| | Max Data Rate | 22.996 Mbps |

6.10.2.4.6.1.1.2.2 Physical channel parameters for DPCH

See clause 6.10.2.4.1.2.1.2

6.10.2.4.6.1.2 Downlink

See clause 6.10.2.4.5.1.2.

6.10.2.4.6.1a Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.10.2.4.6.1a.1 Uplink

6.10.2.4.6.1a.1.1 Transport channel parameters

6.10.2.4.6.1a.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.1a.1.1.1.1 MAC-d flow parameters for Stand-alone UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

6.10.2.4.6.1a.1.2 Physical channel parameters

6.10.2.4.6.1a.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.1a.2 Downlink

6.10.2.4.6.1a.2.1 Transport channel parameters

6.10.2.4.6.1a.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.1a.2.1.1.1 MAC-d flow parameters for Stand-alone DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2

6.10.2.4.6.1a.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.1a.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.10.2.4.6.2.1 Uplink

6.10.2.4.6.2.1.1 Transport channel parameters

6.10.2.4.6.2.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.2.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.2.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

| | | Alt 1 Fixed RLC + MAC-e/es (Rel-6 and later releases) NOTE 2 | | | | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 2 | | | |
|--------------|----------------------|---|-------|-------|-------|---|-------|-------|-------|
| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category and TTI | | | | | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 | 8 | 16 | 16 | 16 |
| MAC | MAC-es multiplexing | 4 logical channel multiplexing | | | | 4 logical channel multiplexing | | | |
| | MAC-d PDU size, bit | 144 | | | | 144 | | | |
| | MAC type | MAC-e/es | | | | MAC-i/is | | | |

| | | | |
|--|--|--------------------------|--------------------------|
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | E-DCH |
| | TTI | 10ms (alt. 2ms) (NOTE 1) | 10ms (alt. 2ms) (NOTE 1) |
| | Coding type | TC | TC |
| | CRC, bit | 24 | 24 |
| NOTE 1: The support of 2ms TTI depends on the UE category. | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |

6.10.2.4.6.2.1.2 Physical channel parameters

6.10.2.4.6.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.2.2 Downlink

See clause 6.10.2.4.5.1.2.

6.10.2.4.6.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.10.2.4.6.3.1 Uplink

See clause 6.10.2.4.6.2.

6.10.2.4.6.3.1.2 Physical channel parameters

6.10.2.4.6.3.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.3.2 Downlink

6.10.2.4.6.3.2.1 Transport channel parameters

6.10.2.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.6.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | | | | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | | | |
|---|---------------------------------|---|-------|-------|-------|--|-------|-------|-------|
| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category (NOTE 1) | | | | | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 | 8 | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 4 | 4 | 4 | 4 | 0 | | | |
| | MAC multiplexing | 4 logical channel multiplexing | | | | N/A | | | |
| | MAC-d PDU size, bit | 148 | | | | 144 | | | |
| | MAC-hs Type | MAC-hs | | | | MAC-ehs | | | |
| | MAC-hs header fixed part, bit | 21 | | | | 24 | | | |
| Layer 1 | TrCH type | HS-DSCH | | | | HS-DSCH | | | |
| | TTI | 2 ms | | | | 2 ms | | | |
| | Coding type | TC | | | | TC | | | |
| | CRC, bit | 24 | | | | 24 | | | |
| | Applicable modulation schemes | QPSK, 16QAM | | | | QPSK, 16QAM, 64QAM | | | |
| | Applicable with MIMO | No | | | | Yes | | | |
| | Applicable with Dual-Cell HSDPA | No | | | | Yes | | | |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | | | | | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | | | | | | |

6.10.2.4.6.3.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.6.4.1 Uplink

6.10.2.4.6.4.1.1 Transport channel parameters

6.10.2.4.6.4.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.6.4.1.1.4 TFCS

See clause 6.10.2.4.1.4.1.1.3.

6.10.2.4.6.4.1.2 Physical channel parameters

6.10.2.4.6.4.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.4.1.2.2 Physical channel parameters on DCH

See clause 6.10.2.4.1.4.1.2.

6.10.2.4.6.4.2 Downlink

See clause 6.10.2.4.5.3.2.

6.10.2.4.6.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.10.2.4.6.5.1 Uplink

6.10.2.4.6.5.1.1 Transport channel parameters

6.10.2.4.6.5.1.1.1 Transport channel parameters for E-DCH

MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.

6.10.2.4.6.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.5.1.2 Physical channel parameters

6.10.2.4.6.5.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.5.2 Downlink

See clause 6.10.2.4.5.6.2.

6.10.2.4.6.6 Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)

6.10.2.4.6.6.1 Uplink

6.10.2.4.6.6.1.1 Transport channel parameters

6.10.2.4.6.6.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.6.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 2 | Alt 2 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 2 |
|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 0 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 336 (alt 328) | Flexible from 88 up to 12000 (NOTE 3) |
| | Max data rate, bps | Depends on UE category and TTI | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 96, 112, 144, 160, 176, 192, 208, 224, 288, 296, 312, 344 (alt 336) | Flexible from 96 up to 12008 |
| | MAC type | MAC-e/es | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | |
| | TTI | 10ms (alt. 2ms) (NOTE 1) | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| NOTE 1: The support of 2ms TTI depends on the UE category | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |

6.10.2.4.6.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.

6.10.2.4.6.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.1.2 Physical channel parameters

6.10.2.4.6.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.2 Downlink

6.10.2.4.6.2.1 Transport channel parameters

6.10.2.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.6.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--|-----------------------------------|---|--|---|
| Higher Layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | UM | | |
| | Payload sizes, bit | 104, 136, 152, 168, 184, 216, 288, 336 (alt 328) | 104, 136, 152, 168, 184, 216, 288, 336 (alt 328) | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE1 | | |
| | UMD PDU header, bit | 8 | 8 | 8 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 112 , 144, 160, 176, 192, 224, 296, 344 (alt 336) | 112 , 144, 160, 176, 192, 224, 296, 344 (alt 336) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms | 2 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

6.10.2.4.6.6.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.6.6.2.1.1.3 MAC-d flow#3 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.10.2.4.6.6.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.6.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.7 Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate

depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)

- 6.10.2.4.6.7.1 Uplink
- 6.10.2.4.6.7.1.1 Transport channel parameters
- 6.10.2.4.6.7.1.1.1 Transport channel parameters for E-DCH
- 6.10.2.4.6.7.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 2 | Alt 2 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 2 |
|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 0 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 328 (alt 336) | Flexible from 88 up to 12000 (NOTE 3) |
| | Max data rate, bps | Depends on UE category and TTI | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 96, 112, 144, 160, 176, 192, 208, 224, 288, 296, 312, 336 (alt 344) | Flexible from 96 up to 12008 |
| | MAC type | MAC-e/es | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | |
| | TTI | 10ms (alt. 2ms) (NOTE 1) | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| NOTE 1: The support of 2ms TTI depends on the UE category | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |

- 6.10.2.4.6.7.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

- 6.10.2.4.6.7.1.1.1.3 MAC-d flow #3 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

- 6.10.2.4.6.7.1.1.1.4 MAC-d flow #4 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.7.1.2 Physical channel parameters

6.10.2.4.6.7.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.7.2 Downlink

6.10.2.4.6.7.2.1 Transport channel parameters

6.10.2.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.7.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--|-----------------------------------|---|--|---|
| Higher Layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | UM | | |
| | Payload sizes, bit | 104, 136, 152, 168, 184, 216, 288, 328 (alt 336) | 104, 136, 152, 168, 184, 216, 288, 328 (alt 336) | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE1 | | |
| | UMD PDU header, bit | 8 | 8 | 8 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 112 , 144, 160, 176, 192, 224, 296, 336 (alt 344) | 112 , 144, 160, 176, 192, 224, 296, 336 (alt 344) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms | 2 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

6.10.2.4.6.7.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.6.7.2.1.1.3 MAC-d flow#3 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.6.7.2.1.1.4 MAC-d flow#4 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.10.2.4.6.7.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.7.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.8 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.6.8.1 Uplink

6.10.2.4.6.8.1.1 Transport channel parameters

6.10.2.4.6.8.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.8.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1

6.10.2.4.6.8.1.1.2 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

See clause 6.10.2.4.1.62.1.1.1

6.10.2.4.6.8.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.6.8.1.1.4 TFCS

See clause 6.10.2.4.1.62.1.1.3

6.10.2.4.6.8.1.1.5 TFC subset list

See clause 6.10.2.4.1.62.1.1.4

6.10.2.4.6.8.1.2 Physical channel parameters

6.10.2.4.6.8.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.10.2.4.6.8.1.2.2 Physical channel parameters on DCH

See clause 6.10.2.4.1.62.1.2

6.10.2.4.6.8.2 Downlink

See clause 6.10.2.4.5.8.2

- 6.10.2.4.6.9 Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) kbps DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
- 6.10.2.4.6.9.1 Uplink
- 6.10.2.4.6.9.1.1 Transport channel parameters
- 6.10.2.4.6.9.1.1.1 Transport channel parameters for E-DCH
- 6.10.2.4.6.9.1.1.1.1 MAC-d flow #1 parameters for Conversational / speech / UL:(12.2, 7.75, 5.9, 4.75) kbps / CS RAB (non-scheduled)

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 3 | Alt 2 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 3 |
|--|--|---|--|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | Header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 48, 104, 128, 168, 256 | Flexible from 48 up to up to 12000 (NOTE 4) |
| | Max data rate, bps | Depends on UE category and TTI | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 56, 112, 136, 176, 264 (non-scheduled) NOTE1 | Flexible |
| | MAC type | MAC-e/es | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | |
| | TTI | 10ms (alt. 2ms) (NOTE 2) | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| NOTE1: Max MAC-e PDU content sizes depends on non-scheduled grant given by SRNC | | | |
| NOTE 2: The support of 2ms TTI depends on the UE category | | | |
| NOTE 3: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |
| NOTE 4: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |

- 6.10.2.4.6.9.1.1.1.2 MAC-d flow #2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

- 6.10.2.4.6.9.1.2 Physical channel parameters

- 6.10.2.4.6.9.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.9.2 Downlink

6.10.2.4.6.9.2.1 Transport channel parameters

6.10.2.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.9.2.1.1.1 MAC-d flow#1 parameters for Conversational / speech / DL:(12.2, 7,75, 5.9, 4.75) kbps / CS RAB

| | | Alt 1 RLC + MAC-hs (Rel-5 and later releases) NOTE2 | Alt 2 RLC + MAC-ehs (Rel-7 and later releases) NOTE2 |
|---|--|---|--|
| Higher Layer | RAB/Signalling RB | RAB | |
| PDCP | Header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 48, 104, 128, 168, 256 | 48, 104, 128, 168, 256 |
| | Max data rate, bps | depends on UE category NOTE1 | |
| | UMD PDU header, bit | 8 | 8 |
| MAC | MAC-d header, bit | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| | MAC-d PDU size, bit | 56, 112, 136, 176, 264 | 56, 112, 136, 176, 264 |
| | MAC-hs Type | MAC-hs | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 21 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms |
| | Coding type | TC | TC |
| | CRC, bit | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes |
| | NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see [25.321]). | | |
| NOTE2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | |

6.10.2.4.6.9.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.10.2.4.6.9.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.9.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

- 6.10.2.4.6.10 Conversational / speech / UL:(12.65, 8.85, 6.6) kbps DL: (12.65, 8.85, 6.6) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
- 6.10.2.4.6.10.1 Uplink
- 6.10.2.4.6.10.1.1 Transport channel parameters
- 6.10.2.4.6.10.1.1.1 Transport channel parameters for E-DCH
- 6.10.2.4.6.10.1.1.1.1 MAC-d flow#1 parameters for Conversational / speech / UL:(12.65, 8.85, 6.6) kbps / CS RAB (non-scheduled)

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 3 | Alt 2 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 3 |
|--|--|---|--|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | Header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 48, 144, 192, 264 | Flexible from 48 up to up to 12000 (NOTE 4) |
| | Max data rate, bps | Depends on UE category and TTI | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 56, 152, 200, 272 (non-scheduled) NOTE 1 | Flexible |
| | MAC type | MAC-e/es | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | |
| | TTI | 10ms (alt. 2ms) (NOTE 2) | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| NOTE 1: Max MAC-e PDU content sizes depends on non-scheduled grant given by SRNC | | | |
| NOTE 2: The support of 2ms TTI depends on the UE category | | | |
| NOTE 3: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |
| NOTE 4: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |

- 6.10.2.4.6.10.1.1.1.2. MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

- 6.10.2.4.6.10.1.2 Physical channel parameters

- 6.10.2.4.6.10.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.10.2 Downlink

6.10.2.4.6.10.2.1 Transport channel parameters

6.10.2.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.10.2.1.1.1 MAC-d flow#1 parameters for Conversational / speech / DL:(12.65, 8.85, 6.6) kbps / CS RAB

| | | Alt 1 RLC + MAC-hs (Rel-5 and later releases) NOTE2 | Alt 2 RLC + MAC-ehs (Rel-7 and later releases) NOTE2 |
|---|-----------------------------------|---|--|
| Higher Layer | RAB/Signalling RB | RAB | |
| PDCP | Header size, bit | 8 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 48, 144, 192, 264 | 48, 144, 192, 264 |
| | Max data rate, bps | depends on UE category NOTE1 | |
| | UMD PDU header, bit | 8 | 8 |
| MAC | MAC-d header, bit | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| | MAC-d PDU size, bit | 56, 152, 200, 272 | 56, 152, 200, 272 |
| | MAC-hs Type | MAC-hs | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 21 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms |
| | Coding type | TC | TC |
| | CRC, bit | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see [25.321]). | | | |
| NOTE2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | |

6.10.2.4.6.10.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.10.2.4.6.10.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.10.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.7 Combinations on PRACH and HS-DSCH

6.10.2.4.7.1 Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed or flexible RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK

6.10.2.4.7.1.1 Uplink

6.10.2.4.7.1.1.1 Transport channel parameters

6.10.2.4.7.1.1.1.1 Transport channel for Interactive/Background / UL: 32 kbps / PS RAB + SRBs for CCCH + DCCH

See clause 6.10.2.4.4.1.1.1

6.10.2.4.7.1.1.1.2 TFCS

See clause 6.10.2.4.4.1.1.2

6.10.2.4.7.1.1.2 Physical channel parameters

See clause 6.10.2.4.4.1.2

6.10.2.4.7.1.1.3 Downlink

6.10.2.4.7.1.1.3.1 Transport channel parameters

6.10.2.4.7.1.1.3.2 Transport channel parameters for HS-DSCH

6.10.2.4.7.1.1.3.2.1 MAC-ehs queue id#0 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| | | Fixed RLC + MAC-ehs (Rel-7 and later releases) | |
|--------------|--------------------------------|---|------------------|
| Higher layer | RAB/Signalling RB | SRB#0 | SRB#1 |
| RLC | Logical channel type | CCCH | DCCH |
| | RLC mode | UM | UM |
| | Payload sizes, bit | 136 | 136 |
| | Max data rate, bps | Depends on UE Category (NOTE1) | |
| | UMD PDU header, bit | 8 | 8 |
| MAC | MAC-d header, bit | 0 | |
| | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 144 (Note 2) | |
| | MAC-c header, bit | 0 | 0 or 32 (Note 3) |
| | MAC-hs Type | MAC-ehs | |
| | MAC-ehs header fixed part, bit | 24 | |
| Layer 1 | TrCH type | HS-DSCH | |
| | TTI | 2 ms | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| | Applicable modulation schemes | QPSK, 16QAM | |

NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).

NOTE 2: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34].

NOTE 3: MAC-c header can be either 0 or 32 bits (U-RNTI = 32 bits) for SRB1. The U-RNTI is only included as MAC-c header to MAC-d PDU for DCCH (SRB#1 only) when common H-RNTI is used (see 3GPP TS 25.321 [38]).

6.10.2.4.7.1.1.3.2.2 MAC-ehs queue id#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| | | Fixed RLC + MAC-ehs (Rel-7 and later releases) | | |
|---|--------------------------------|---|-------|-------|
| Higher layer | RAB/Signalling RB | SRB#2 | SRB#3 | SRB#4 |
| RLC | Logical channel type | DCCH | DCCH | DCCH |
| | RLC mode | AM | AM | AM |
| | Payload sizes, bit | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE Category (NOTE1) | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| | MAC-d PDU size, bit | 144 (Note 2) | | |
| | MAC-hs Type | MAC-ehs | | |
| | MAC-ehs header fixed part, bit | 24 | | |
| Layer 1 | TrCH type | HS-DSCH | | |
| | TTI | 2ms | | |
| | Coding type | TC | | |
| | CRC, bit | 24 | | |
| | Applicable modulation schemes | QPSK, 16QAM | | |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | | |
| NOTE 2: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34]. | | | | |

6.10.2.4.7.1.1.3.2.3 MAC-ehs queue id#2 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | Alt 1 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 4 | Alt 2 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 4 |
|--|--------------------------------|---|--|
| Higher layer | RAB/Signalling RB | RAB | RAB |
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | Flexible up to 12000 (Note 2) |
| | Max data rate, bps | depends on UE category (NOTE 1) | depends on UE category (NOTE 1) |
| | AMD PDU header, bit | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| | MAC-d PDU size, bit | 336 | Flexible (Note 3) |
| | MAC-hs Type | MAC-ehs | MAC-ehs |
| | MAC-ehs header fixed part, bit | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH |
| | TTI | 2 ms | 2 ms |
| | Coding type | TC | TC |
| | CRC, bit | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | |
| NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |
| NOTE 3: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34]. | | | |
| NOTE 4: Alternative 1 with Fixed RLC is the default configuration. For test cases that use alternative 2 (Flexible RLC) then this shall be explicitly stated in the test case. | | | |

6.10.2.4.7.1.1.3.2.4 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.

6.10.2.4.7.1.1.3.6 Transport channel parameters of SRB for BCCH

| | | |
|--------------|--------------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB |
| | User of Radio Bearer | RRC |
| RLC | Logical channel type | BCCH |
| | RLC mode | TM |
| | Payload sizes, bit | 144 |
| | Max data rate, bps | Depends on UE category |
| | TrD PDU header, bit | 0 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bits | 144 (Note 1) |
| | MAC-hs Type | MAC-ehs |
| | MAC-ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI, ms | 2ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| | Applicable modulation scheme | QPSK |

NOTE 1: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34]

6.10.2.4.7.1.1.4 Physical channel parameters

6.10.2.4.7.1.1.4.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.3 RAB and signalling RB for TDD

6.10.3.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

Table 6.10.3.1.1: Prioritized RABs

| # | Traffic class ^[3] | SSD ^[3] | Max. rate, kbps | CS/PS |
|-----|------------------------------|--------------------|---|-------|
| 1 | Conversational | Speech | UL:12.2 DL:12.2 | CS |
| 1a | Conversational | Speech | UL: (12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) | CS |
| 2 | Conversational | Speech | UL:10.2 DL:10.2 | CS |
| 2a | Conversational | Speech | UL:(10.2 , 6.7, 5.9, 4.75) DL:10.2, 6.7, 5.9, 4.75) | CS |
| 3 | Conversational | Speech | UL:7.95 DL:7.95 | CS |
| 4 | Conversational | Speech | UL:7.4 DL:7.4 | CS |
| 4a | Conversational | Speech | UL:(12.2 7.95 5.9 4.75, DL:(12.2 7.95 5.9 4.75) | CS |
| 5 | Conversational | Speech | UL:6.7 DL:6.7 | CS |
| 6 | Conversational | Speech | UL:5.9 DL:5.9 | CS |
| 7 | Conversational | Speech | UL:5.15 DL:5.15 | CS |
| 8 | Conversational | Speech | UL:4.75 DL:4.75 | CS |
| 9 | Conversational | Unknown | UL:28.8 DL:28.8 | CS |
| 10 | Conversational | Unknown | UL:64 DL:64 | CS |
| 11 | Conversational | Unknown | UL:32 DL:32 | CS |
| 11a | Conversational | Unknown | UL:8 DL:8 | CS |
| 12 | Streaming | Unknown | UL:14.4 DL:14.4 | CS |
| 13 | Streaming | Unknown | UL:28.8 DL:28.8 | CS |
| 14 | Streaming | Unknown | UL:57.6 DL:57.6 | CS |
| 15 | Void | | | |
| 15a | Streaming | Unknown | UL:16 DL:64 | PS |
| 16 | Void | | | |
| 17 | Void | | | |
| 18 | Void | | | |
| 19 | Void | | | |
| 20 | Interactive or Background | N/A | UL:32 DL:8 | PS |
| 20a | Interactive or Background | N/A | UL:8 DL:8 | PS |
| 20b | Interactive or Background | N/A | UL:16 DL:16 | PS |
| 20c | Interactive or Background | N/A | UL:32 DL:32 | PS |
| 21 | Void | | | |
| 22 | Interactive or Background | N/A | UL:32 DL:64 | PS |
| 23 | Interactive or Background | N/A | UL:64 DL:64 | PS |
| 24 | Interactive or Background | N/A | UL:64 DL:128 | PS |
| 25 | Interactive or Background | N/A | UL:128 DL:128 | PS |
| 26 | Interactive or Background | N/A | UL:64 DL:384 | PS |
| 27 | Interactive or Background | N/A | UL:128 DL:384 | PS |
| 28 | Interactive or Background | N/A | UL:384 DL:384 | PS |
| 29 | Interactive or Background | N/A | UL:64 DL:2048 | PS |
| 30 | Interactive or Background | N/A | UL:128 DL:2048 | PS |
| 31 | Void | | | |
| 32 | Interactive or Background | N/A | UL:64 DL:256 | PS |
| 33 | Interactive or Background | N/A | UL:0 DL:32 | PS |
| 34 | Interactive or Background | N/A | UL:32 DL:0 | PS |
| 35 | Interactive or Background | N/A | UL:64 DL:144 | PS |
| 36 | Interactive or Background | N/A | UL:144 DL:144 | PS |

Table 6.10.3.1.2: Signalling RBs

| # | Maximum rate, kbps | Logical channel | PhyCh onto which SRBs are mapped |
|----|---------------------|-----------------|----------------------------------|
| 1 | UL:1.7 DL:1.7 | DCCH | DPCH |
| 2 | UL:3.4 DL:3.4 | DCCH | DPCH |
| 3 | UL:13.6 DL:13.6 | DCCH | DPCH |
| 4 | DL:27.2 (alt. 13.6) | DCCH | SCCPCH |
| 5 | UL:16.8 | CCCH | PRACH |
| 6 | DL:32 (alt. 16) | CCCH | SCCPCH |
| 7 | DL:33.6 (alt. 16.8) | BCCH | SCCPCH |
| 8 | DL:12 (alt. 8) | PCCH | SCCPCH |
| 9 | UL:16.8 | SHCCH | PRACH |
| 10 | UL:16.8 | SHCCH | PRACH or PUSCH |
| 11 | DL:32 (alt. 16) | SHCCH | SCCPCH |
| 12 | DL:16 | SHCCH | SCCPCH or PDSCH |

6.10.3.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.

- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.

- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL: 3.4/16.8 DL:3.4/ 33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2 048 kbps / PS RAB
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:16.8 kbps SRBs for CCCH and SHCCH
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:16.8 kbps SRBs for CCCH and SHCCH
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:16.8 kbps SRBs for CCCH and SHCCH
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
+ SRB for CCCH
+ SRBs for DCCH
+ SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB
+ SRBs for CCCH

- + SRB for DCCH
- + SRB for BCCH
- 2b) SRBs for CCCH
 - + SRB for DCCH
 - + SRB for BCCH
- 3) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for PCCH
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.
- 3a) SRB for PCCH
 - + SRB for CCCH
 - + SRB for DCCH
 - + SRB for BCCH
- 4) RB for CTCH
 - + SRB for CCCH
 - + SRB for BCCH

Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH.

Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 10) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 11) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.10.3.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.3.3.1.

Table 6.10.3.3.1: Example of linkage between RABs and services

| Traffic class ^[3] | RAB | | | Residual BER ^[3] | Services |
|------------------------------|--------------------|------------------------------|-------|--|--|
| | SSD ^[3] | Max. rate, kbps | CS/PS | | |
| Conversational | Speech | UL:4.75-12.2 DL:4.75-12.2 | CS | 5×10^{-4} , 1×10^{-3} , 5×10^{-3} | AMR speech |
| Conversational | Unknown | UL:64 DL:64 | CS | 1×10^{-4} or 1×10^{-6} | UDI 1B, 64k 3G-324M ^[4] |
| Conversational | Unknown | UL:32 DL:32 | CS | 1×10^{-4} or 1×10^{-6} | 32k 3G-324M ^[4] |
| Conversational | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | Transparent modem |
| Streaming | Unknown | UL:14.4 DL:14.4 | CS | 1×10^{-3} | FAX ^[6] |
| Streaming | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | FAX ^[6] PIAFS 32 kbps |
| Streaming | Unknown | UL:57.6 DL:57.6 | CS | 1×10^{-3} | Modem ^[6] , FTM ^[5] , PIAFS 64 kbps |
| Streaming | Unknown | UL:64-128 or DL:64-384 | CS | 1×10^{-3} or 1×10^{-4} | Streaming video, uni-directional |
| Interactive or Background | N/A | UL:32-384 DL:8-2048 | PS | 1×10^{-3} or 1×10^{-4} | Packet |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH

NOTE 3: UDI *n*B can be provided via *n* RABs of conversational 64 kbps.

6.10.3.4 Typical radio parameter sets

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

6.10.3.4.1 Combinations on DPCH

6.10.3.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.1.1 Uplink

6.10.3.4.1.1.1.1 Transport channel parameters

6.10.3.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| | | | | | | |
|--------------|-------------------------|-----------|--------------------------------|------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | | UM | AM | AM | AM |
| | Payload sizes, bit | | 136 | 128 | 128 | 128 |
| | Max data rate, bps | | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | | 4 | 4 | 4 | 4 |
| | MAC multiplexing | | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | | DCH | | | |
| | TB sizes, bit | | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | | 0x148 (alt 1x0) (note) | | |
| | | TF1, bits | | 1x148 | | |
| | TTI, ms | | 80 | | | |
| Coding type | | CC 1/3 | | | | |

| | | |
|--|---|------------|
| | CRC, bit | 16 |
| | Max number of bits/TTI before rate matching | 516 |
| | Max number of bits/radio frame before rate matching | 65 |
| | RM attribute | 155 to 185 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. | | |

6.10.3.4.1.1.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.10.3.4.1.1.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 234 |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.1.2 Downlink

6.10.3.4.1.1.2.1 Transport channel parameters

6.10.3.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| | | | | | |
|---|---|--------------------------------|--------------------------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0 x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 80 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 65 | | | |
| | RM attribute | 155 to 185 | | | |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | | | |

6.10.3.4.1.1.2.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.10.3.4.1.1.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 236 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.10.3.4.1.1a.1 Uplink

6.10.3.4.1.1a.1.1 Transport channel parameters

6.10.3.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| | | | | | |
|---|---|--------------------------------|-------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 | | | |
| | TFS | TF0, bits | 0x148 | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 20 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| Max number of bits/radio frame before rate matching | 258 | | | | |

6.10.3.4.1.1a.1.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |

6.10.3.4.1.1a.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 266 |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 1 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.1a.2 Downlink

6.10.3.4.1.1a.2.1 Transport channel parameters

6.10.3.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|----------------------|-------|-------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |

| | | | | | | |
|---------|---|-----------|--------------------------------|-------|-------|-------|
| RLC | Logical channel type | | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | | UM | AM | AM | AM |
| | Payload sizes, bit | | 136 | 128 | 128 | 128 |
| | Max data rate, bps | | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | | 4 | 4 | 4 | 4 |
| | MAC multiplexing | | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | | DCH | | | |
| | TB sizes, bit | | 148 | | | |
| | TFS | TF0, bits | 0 x148 | | | |
| | | TF1, bits | 1x148 | | | |
| | TTI, ms | | 20 | | | |
| | Coding type | | CC 1/3 | | | |
| | CRC, bit | | 16 | | | |
| | Max number of bits/TTI before rate matching | | 516 | | | |
| | Max number of bits/radio frame before rate matching | | 258 | | | |

6.10.3.4.1.1a.2.1.2 TFCS

| | |
|----------------------------------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is optional. | |

6.10.3.4.1.1a.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 268 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.2.1 Uplink

6.10.3.4.1.2.1.1 Transport channel parameters

6.10.3.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

| | | | | | | |
|--------------|---|-----------|--------------------------------|-------------------------|------------------------|-------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority | |
| RLC | Logical channel type | | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | | UM | AM | AM | AM |
| | Payload sizes, bit | | 136 | 128 | 128 | 128 |
| | Max data rate, bps | | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | | 4 | 4 | 4 | 4 |
| | MAC multiplexing | | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | | DCH | | | |
| | TB sizes, bit | | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | | |
| | | TF1, bits | 1x148 | | | |
| | TTI, ms | | 40 | | | |
| | Coding type | | CC 1/3 | | | |
| | CRC, bit | | 16 | | | |
| | Max number of bits/TTI before rate matching | | 516 | | | |

| | | |
|--|---|------------|
| | Max number of bits/radio frame before rate matching | 129 |
| | RM attribute | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. | | |

6.10.3.4.1.2.1.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.10.3.4.1.2.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 234 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.2.2 Downlink

6.10.3.4.1.2.2.1 Transport channel parameters

6.10.3.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

| | | | | | |
|---|---|--------------------------------|-------------------------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0, 148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 129 | | | |
| | RM attribute | 155 to 165 | | | |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | | | |

6.10.3.4.1.2.2.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.10.3.4.1.2.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 236 |

| | | |
|---|------------------|--------|
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

6.10.3.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 516 | | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN.

6.10.3.4.1.3.1.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.10.3.4.1.3.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 468 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.10.3.4.1.3.2 Downlink

6.10.3.4.1.3.2.1 Transport channel parameters

6.10.3.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| | | | | | |
|---|---|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| MAC | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| Max number of bits/radio frame before rate matching | 516 | | | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE.

6.10.3.4.1.3.2.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |

NOTE: The first TFC is required for the alt. case, optional otherwise.

6.10.3.4.1.3.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 480 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0.92 |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.10.3.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.4.1 Uplink

6.10.3.4.1.4.1.1 Transport channel parameters

6.10.3.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| | | | | |
|--------------|----------------------|----------------------------|----------------|----------------|
| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | TM |
| | Payload sizes, bit | 39, 81 (alt. 0, 39, 81) | 103 | 60 |
| | Max data rate, bps | 12 200 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | DCH |

| | | | | |
|---|-----------|----------------------------|------------|------------|
| TB sizes, bit | | 39, 81 (alt. 0, 39, 81) | 103 | 60 |
| TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | TF1, bits | 1x39 | 1x103 | 1x60 |
| | TF2, bits | 1x81 | N/A | N/A |
| TTI, ms | | 20 | 20 | 20 |
| Coding type | | CC 1/3 | CC 1/3 | CC 1/2 |
| CRC, bit | | 12 | N/A | N/A |
| Max number of bits/TTI after channel coding | | 303 | 333 | 136 |
| Max number of bits/radio frame before rate matching | | 152 | 167 | 68 |
| RM attribute | | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.4.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.4.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.72 |

6.10.3.4.1.4.2 Downlink

6.10.3.4.1.4.2.1 Transport channel parameters

6.10.3.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|----------------------|------------------------|---------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39,81 (alt. 0, 39, 81) | 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39,81 (alt. 0,39,81) | 103 | 60 | |
| | TFS | TF0, bits | 0x81 (alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x103 | 1x60 |
| | | TF2, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| Max number of bits/TTI after channel coding | 303 | 333 | 136 | | |

| | | | | |
|--|---|------------|------------|------------|
| | Max number of bits/radio frame before rate matching | 152 | 167 | 68 |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.4.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.4.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.76 |

6.10.3.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.4a.1 Uplink

6.10.3.4.1.4a.1.1 Transport channel parameters

6.10.3.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|--|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2 bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x84 | N/A |
| | | TF4, bits | 1x75 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.4a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.4a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.72 |

6.10.3.4.1.4a.2 Downlink

6.10.3.4.1.4a.2.1 Transport channel parameters

6.10.3.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|--|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x84 | N/A |
| | | TF4, bits | 1x75 | 1x103 | N/A |
| | | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.4a.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.4a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.76 |

6.10.3.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.5.1 Uplink

6.10.3.4.1.5.1.1 Transport channel parameters

6.10.3.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|----------------------------|---------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.5.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.5.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.40 |

6.10.3.4.1.5.2 Downlink

6.10.3.4.1.5.2.1 Transport channel parameters

6.10.3.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|------------------------|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39,65 (alt. 0, 39, 65) | 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 65 (alt.0,39,65) | 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt,1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.5.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.5.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |

| | | |
|--|------------------|------|
| | Puncturing limit | 0.40 |
|--|------------------|------|

- 6.10.3.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.3.4.1.5a.1 Uplink
- 6.10.3.4.1.5a.1.1 Transport channel parameters
- 6.10.3.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|---|--|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x53 | 1x40 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x76 | N/A |
| | | TF4, bits | 1x58 | 1x99 | N/A |
| | | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). | | | | | |

- 6.10.3.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

- 6.10.3.4.1.5a.1.1.3 TFCS

| | |
|---|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

- 6.10.3.4.1.5a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.40 |

6.10.3.4.1.5a.2 Downlink

6.10.3.4.1.5a.2.1 Transport channel parameters

6.10.3.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--|---|--|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x53 | 1x40 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x76 | N/A |
| | | TF4, bits | 1x58 | 1x99 | N/A |
| | | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | | |

6.10.3.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.5a.2.1.3 TFCS

| | |
|---|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.5a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.40 |

6.10.3.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.6.1 Uplink

6.10.3.4.1.6.1.1 Transport channel parameters

6.10.3.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | Max data rate, bps | 7 950 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | TFS | TF0, bits | 0x75 (alt. 1x0) (note) | 0x84 |
| | | TF1, bits | 1x39 | 1x84 |
| | | TF2, bits | 1x75 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 285 | 276 | |
| | Max number of bits/radio frame before rate matching | 143 | 138 | |
| | RM attribute | 180 to 220 | 170 to 210 | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.6.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.6.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |

6.10.3.4.1.6.2 Downlink

6.10.3.4.1.6.2.1 Transport channel parameters

6.10.3.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|----------------------|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | Max data rate, bps | 7 950 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | TFS | TF0, bits | 0x75 (alt. 1x0) (note) | 0x84 |
| | | TF1, bits | 1x39 | 1x84 |

| | | | |
|--|---|------------|------------|
| | TF2, bits | 1x75 | N/A |
| | TTI, ms | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 |
| | CRC, bit | 12 | N/A |
| | Max number of bits/TTI after channel coding | 285 | 276 |
| | Max number of bits/radio frame before rate matching | 143 | 138 |
| | RM attribute | 180 to 220 | 170 to 210 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.10.3.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.6.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.6.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7.1 Uplink

6.10.3.4.1.7.1.1 Transport channel parameters

6.10.3.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x87 |
| | | TF2, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| | RM attribute | 180 to 220 | 170 to 210 | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.7.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.7.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

6.10.3.4.1.7.2 Downlink

6.10.3.4.1.7.2.1 Transport channel parameters

6.10.3.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|-------------------------|-----------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | TFS | TF0, bits | 0x61(alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x87 |
| | | TF2, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.10.3.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.7.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; optional otherwise. |

6.10.3.4.1.7.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7a.1 Uplink

6.10.3.4.1.7a.1.1 Transport channel parameters

6.10.3.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|--|---------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.7a.1.1.3 TFCS

| | |
|---|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.7a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |

| | | |
|--|------------------|------|
| | Puncturing Limit | 0.48 |
|--|------------------|------|

6.10.3.4.1.7a.2 Downlink

6.10.3.4.1.7a.2.1 Transport channel parameters

6.10.3.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|--|---------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.7a.2.1.3 TFCS

| | |
|---|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.7a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

- 6.10.3.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.3.4.1.8.1 Uplink
- 6.10.3.4.1.8.1.1 Transport channel parameters
- 6.10.3.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | |
| | Max data rate, bps | 6 700 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | |
| | TFS | TF0, bits | 0x58 (alt. 1x0) (note) | 0x76 |
| | | TF1, bits | 1x39 | 1x76 |
| | | TF2, bits | 1x58 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 234 | 252 | |
| | Max number of bits/radio frame before rate matching | 117 | 126 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

- 6.10.3.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

- 6.10.3.4.1.8.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

- 6.10.3.4.1.8.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 |

- 6.10.3.4.1.8.2 Downlink

- 6.10.3.4.1.8.2.1 Transport channel parameters

- 6.10.3.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 |
| | Max data rate, bps | 6 700 | |

| | | | | |
|---|---|-----------------------|-----------------------|------|
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 58 (alt. 0,39,58) | 76 | |
| | TFS | TF0, bits | 0x58 (alt.1x0) (note) | 0x76 |
| | | TF1, bits | 1x39 | 1x76 |
| | | TF2, bits | 1x58 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 234 | 252 | |
| | Max number of bits/radio frame before rate matching | 117 | 126 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE : CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.8.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.8.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.9.1 Uplink

6.10.3.4.1.9.1.1 Transport channel parameters

6.10.3.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|----------------------|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | |
| | Max data rate, bps | 5 900 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | |
| | TFS | TF0, bits | 0x55 (alt. 1x0) (note) | 0x63 |
| | | TF1, bits | 1x39 | 1x63 |
| | | TF2, bits | 1x55 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| CRC, bit | 12 | N/A | | |

| | | | |
|---|---|------------|------------|
| | Max number of bits/TTI after channel coding | 225 | 213 |
| | Max number of bits/radio frame before rate matching | 113 | 107 |
| | RM attribute | 180 to 220 | 170 to 210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.10.3.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.9.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.9.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

6.10.3.4.1.9.2 Downlink

6.10.3.4.1.9.2.1 Transport channel parameters

6.10.3.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | |
| | Max data rate, bps | 5 900 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 | |
| | TFS | TF0, bits | 0x55 (alt. 1x0) (note) | 0x63 |
| | | TF1, bits | 1x39 | 1x63 |
| | | TF2, bits | 1x55 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 225 | 213 | |
| | Max number of bits/radio frame before rate matching | 113 | 107 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.9.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.9.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.10.1 Uplink

6.10.3.4.1.10.1.1 Transport channel parameters

6.10.3.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | Max data rate, bps | 5 150 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | TFS | TF0, bits | 0x49 (alt. 1x0) (note) | 0x54 |
| | | TF1, bits | 1x39 | 1x54 |
| | | TF2, bits | 1x49 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | |
| | Max number of bits/radio frame before rate matching | 104 | 93 | |
| RM attribute | 180 to 220 | 170 to 210 | | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.10.3.4.1.10.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.10.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.10.3.4.1.10.2 Downlink

6.10.3.4.1.10.2.1 Transport channel parameters

6.10.3.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | Max data rate, bps | 5 150 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | TFS | TF0, bits | 0x49 (alt. 1x0) (note) | 0x54 |
| | | TF1, bits | 1x39 | 1x54 |
| | | TF2, bits | 1x49 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | |
| | Max number of bits/radio frame before rate matching | 104 | 93 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.10.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.10.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.72 |

6.10.3.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.11.1 Uplink

6.10.3.4.1.11.1.1 Transport channel parameters

6.10.3.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | |
| | Max data rate, bps | 4 750 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | |
| | TFS | TF0, bits | 0x42 (alt. 1x0) (note) | 0x53 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 186 | 183 | |
| | Max number of bits/radio frame before rate matching | 93 | 92 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.10.3.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.10.3.4.1.11.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.11.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |

6.10.3.4.1.11.2 Downlink

6.10.3.4.1.11.2.1 Transport channel parameters

6.10.3.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 |
| | Max data rate, bps | 4 750 | |

| | | | | |
|--------------|---|-------------------------|-----------------------|------|
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42 (alt. 0, 39, 42) | | |
| | TFS | TF0, bits | 0x42 (alt.1x0)(note) | |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 186 | 183 | |
| | Max number of bits/radio frame before rate matching | 93 | 92 | |
| RM attribute | 180 to 220 | 170 to 210 | | |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.11.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.11.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.76 |

6.10.3.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.12.1 Uplink

6.10.3.4.1.12.1.1 Transport channel parameters

6.10.3.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| Max number of bits/radio frame before rate matching | 891 | | |

| | | |
|--|--------------|------------|
| | RM attribute | 160 to 200 |
|--|--------------|------------|

6.10.3.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.12.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.12.1.2 Physical channel parameters

| | | |
|-------------|---|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |
| NOTE: | In case the first TFC in a TFCS is not configured, the TFCl code word will be 8 bits. | |

6.10.3.4.1.12.2 Downlink

6.10.3.4.1.12.2.1 Transport channel parameters

6.10.3.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| | Max number of bits/radio frame before rate matching | 891 | |
| | RM attribute | 160 to 200 | |

6.10.3.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.12.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.12.2.2 Physical channel parameters

| | | |
|---------------|----------|-----------|
| DPCH Downlink | Midamble | 512 chips |
|---------------|----------|-----------|

| | | |
|---|--------------------------------------|------------------------------|
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.40 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.10.3.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.13.1 Uplink

6.10.3.4.1.13.1.1 Transport channel parameters

6.10.3.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

| | | | |
|--------------|---|------------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 64 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 948 |
| | Max number of bits/radio frame before rate matching | | 1 974 |
| RM attribute | | 150 to 195 | |

6.10.3.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.13.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.13.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|--|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot + SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1148 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.10.3.4.1.13.2 Downlink

6.10.3.4.1.13.2.1 Transport channel parameters

6.10.3.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 64 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 948 |
| | Max number of bits/radio frame before rate matching | | 1 974 |
| | RM attribute | | 150 to 195 |

6.10.3.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.13.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.13.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 204 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.10.3.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.14.1 Uplink

6.10.3.4.1.14.1.1 Transport channel parameters

6.10.3.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 32 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |

| | | |
|--|---|------------|
| | TF1, bits | 1x640 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 980 |
| | Max number of bits/radio frame before rate matching | 990 |
| | RM attribute | 165 to 210 |

6.10.3.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.14.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.14.1.2 Physical channel parameters

| | | |
|-------------|---|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.10.3.4.1.14.2 Downlink

6.10.3.4.1.14.2.1 Transport channel parameters

6.10.3.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 32 000 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 640 | |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 1x640 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 980 | |
| | Max number of bits/radio frame before rate matching | 990 | |
| | RM attribute | 165 to 210 | |

6.10.3.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.14.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.14.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.10.3.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.15.1 Uplink

6.10.3.4.1.15.1.1 Transport channel parameters

6.10.3.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 14 400 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 788 |
| | Max number of bits/radio frame before rate matching | | 447 |
| | RM attribute | | 145 to 185 |

6.10.3.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.15.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.15.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.10.3.4.1.15.2 Downlink

6.10.3.4.1.15.2.1 Transport channel parameters

6.10.3.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 14 400 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 788 |
| | Max number of bits/radio frame before rate matching | | 447 |
| | RM attribute | | 145 to 185 |

6.10.3.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.15.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.15.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.80 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.10.3.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.16.1 Uplink

6.10.3.4.1.16.1.1 Transport channel parameters

6.10.3.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 28 800 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |

| | | |
|--|---|------------|
| | TF1, bits | 1x576 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 3 564 |
| | Max number of bits/radio frame before rate matching | 891 |
| | RM attribute | 135 to 175 |

6.10.3.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.16.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.16.1.2 Physical channel parameters

| | | |
|-------------|---|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.10.3.4.1.16.2 Downlink

6.10.3.4.1.16.2.1 Transport channel parameters

6.10.3.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| | Max number of bits/radio frame before rate matching | 891 | |
| | RM attribute | 135 to 175 | |

6.10.3.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.16.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.16.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.44 |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.17.1 Uplink

6.10.3.4.1.17.1.1 Transport channel parameters

6.10.3.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 57 600 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 7 116 | |
| Max number of bits/radio frame before rate matching | 1 779 | | |
| RM attribute | 125 to 165 | | |

6.10.3.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.17.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.17.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |

6.10.3.4.1.17.2 Downlink

6.10.3.4.1.17.2.1 Transport channel parameters

6.10.3.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

| | | | |
|--------------|---|------------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 57 600 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 7 116 |
| | Max number of bits/radio frame before rate matching | | 1 779 |
| RM attribute | | 125 to 165 | |

6.10.3.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.17.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.17.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 960 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.18 Void

6.10.3.4.1.19 Void

6.10.3.4.1.20 Void

6.10.3.4.1.21 Void

6.10.3.4.1.22 Void

6.10.3.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23.1 Uplink

6.10.3.4.1.23.1.1 Transport channel parameters

6.10.3.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt.144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 1 062 (alt. 1 206) | |
| RM attribute | 135 to 175 | | |

6.10.3.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.10.3.4.1.23.2 Downlink

6.10.3.4.1.23.2.1 Transport channel parameters

6.10.3.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 8 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |

| | | |
|--|---|------------|
| | Max number of bits/TTI after channel coding | 1 068 |
| | Max number of bits/radio frame before rate matching | 267 |
| | RM attribute | 135 to 175 |

6.10.3.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23.2.2 Physical channel parameters

| | | |
|---------------|---|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.10.3.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23a.1 Uplink

6.10.3.4.1.23a.1.1 Transport channel parameters

6.10.3.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| | | | |
|--------------|---|------------|--------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 (alt. 128) |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 (alt. 144) |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | N/A (alt. 5x144) |
| | TTI, ms | | 40 (alt. 80) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 068 (alt. 2 412) |
| | Max number of bits/radio frame before rate matching | | 267 (alt. 302) |
| RM attribute | | 135 to 175 | |

6.10.3.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 (alt. 6) |
| TFCS | (8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.56 (alt. 0.48) |

6.10.3.4.1.23a.2 Downlink

See clause 6.10.3.4.1.23.2.

6.10.3.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23b.1 Uplink

6.10.3.4.1.23b.1.1 Transport channel parameters

6.10.3.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 531 (alt. 603) | |
| RM attribute | 135 to 175 | | |

6.10.3.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23b.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 (alt. 0.60) |

6.10.3.4.1.23b.2 Downlink

6.10.3.4.1.23b.2.1 Transport channel parameters

6.10.3.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 | |
| | Max number of bits/radio frame before rate matching | 531 | |
| RM attribute | 135 to 175 | | |

6.10.3.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23b.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23b.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23c.1 Uplink

6.10.3.4.1.23c.1.1 Transport channel parameters

6.10.3.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 (alt. 128) |
| | Max data rate, bps | 32 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 336 (alt. 144) |

| | | |
|---|--------------------|---------------------|
| TFS | TF0, bits | 0x336 (alt. 0x144) |
| | TF1, bits | 1x336 (alt. 1x144) |
| | TF2, bits | 2x336 (alt. 5x144) |
| | TF3, bits | 3x336 (alt. 7x144) |
| | TF4, bits | 4x336 (alt. 10x144) |
| TTI, ms | 40 | |
| Coding type | TC | |
| CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 4 236 (alt. 4 812) | |
| Max number of bits/radio frame before rate matching | 1 059 (alt. 1 203) | |
| RM attribute | 135 to 175 | |

6.10.3.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23c.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23c.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.10.3.4.1.23c.2 Downlink

6.10.3.4.1.23c.2.1 Transport channel parameters

6.10.3.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Max number of bits/radio frame before rate matching | 1 059 | |
| | RM attribute | 135 to 175 | |

6.10.3.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23c.2.1.3 TFCS

| | |
|---|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.23c.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.10.3.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23d.1 Uplink

6.10.3.4.1.23d.1.1 Transport channel parameters

6.10.3.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 1 062 (alt. 1 206) | |
| RM attribute | 135 to 175 | | |

6.10.3.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23d.1.1.3 TFCS

| | |
|---|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.23d.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |

| | | |
|--|------------------|------------------|
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.10.3.4.1.23d.2 Downlink

6.10.3.4.1.23d.2.1 Transport channel parameters

6.10.3.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 32 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 2 124 |
| | Max number of bits/radio frame before rate matching | | 1 062 |
| | RM attribute | | 135 to 175 |

6.10.3.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23d.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.23d.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.24 Void

6.10.3.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.25.1 Uplink

See clause 6.10.3.4.1.23.1.

6.10.3.4.1.25.2 Downlink

6.10.3.4.1.25.2.1 Transport channel parameters

6.10.3.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 64 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Max number of bits/radio frame before rate matching | 2 118 | |
| | RM attribute | 130 to 170 | |

6.10.3.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.25.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.25.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|--|------------------------------|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF16 x 3 codes x 1 time slot + SF16 x 2 codes x 1 time slot | SF16 x 9 codes x 1 time slot |
| Max. Number of data bits/radio frame | 1 204 bits | 2 180 bits |
| TFCI code word | 16 bits | 16 bits |
| Puncturing limit | 0.52 | 0.96 |

6.10.3.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.26.1 Uplink

6.10.3.4.1.26.1.1 Transport channel parameters

6.10.3.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| | | |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 (alt. 128) |
| | Max data rate, bps | 64 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 336 (alt. 144) |

| | | | |
|--------------|---|--------------------|---------------------|
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 3x144) |
| | | TF3, bits | 3x336 (alt. 7x144) |
| | | TF4, bits | 4x336 (alt. 10x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 (alt. 4 812) | |
| | Max number of bits/radio frame before rate matching | 2 118 (alt. 2 406) | |
| RM attribute | 130 to 170 | | |

6.10.3.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.26.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.3.4.1.26.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|--|---|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF16 x 1 code x 1 time slot + SF4 x 1 code x 1 time slot | SF2 x 1 code x 1 time slot + SF4 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 1148 bits | 2 784 bits |
| TFCl code word | 16 bits | 16 bits |
| TPC | 2 bits | 2 bits |
| Puncturing Limit | 0.48 (alt. 0.44) | 1 |

6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

6.10.3.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.26.1.

6.10.3.4.1.27.2 Downlink

6.10.3.4.1.27.2.1 Transport channel parameters

6.10.3.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 128 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |

| | | |
|--|---|------------|
| | TF3, bits | 4x336 |
| | TF4, bits | 8x336 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8 460 |
| | Max number of bits/radio frame before rate matching | 4 230 |
| | RM attribute | 120 to 160 |

6.10.3.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.27.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.27.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|------------------------------|--|
| Midamble | 256 chips | 256 chips |
| Codes and time slots | SF16 x 8 codes x 1 time slot | SF16 x 4 codes x 2 time slots + SF16 x 3 codes x 2 time slots |
| Max. Number of data bits/radio frame | 2 192 bits | 3848 bits |
| TFCI code word | 16 bits | 16 bits |
| Puncturing limit | 0.48 | 0.84 |

6.10.3.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.28.1 Uplink

6.10.3.4.1.28.1.1 Transport channel parameters

6.10.3.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

| | | | |
|---|---|---------------------|---------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 128 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 7x144) |
| | | TF3, bits | 4x336 (alt. 14x144) |
| | | TF4, bits | 8x336 (alt. 20x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 (alt. 9 612) | |
| Max number of bits/radio frame before rate matching | 4 230 (alt. 4 806) | | |
| RM attribute | 120 to 160 | | |

6.10.3.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.28.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt.10) |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.28.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|---------------------------|--|
| Midamble | 256 chips | 256 chips |
| Codes and time slots | SF2 x 1 code x 1 timeslot | SF2 x 1 code x 2 timeslots + SF4 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 2 064 bits | 5 376 bits |
| TFCI code word | 16 bits | 16 bits |
| TPC | 2 bits | 2 bits |
| Puncturing Limit | 0.44 (alt. 0.40) | 1 |

6.10.3.4.1.28.2 Downlink

See clause 6.10.3.4.1.27.2.

6.10.3.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.29.1 Uplink

See clause 6.10.3.4.1.26.1.

6.10.3.4.1.29.2 Downlink

6.10.3.4.1.29.2.1 Transport channel parameters

6.10.3.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

| | | | |
|---|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 144 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 9x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 9 516 | | |
| Max number of bits/radio frame before rate matching | 4 758 | | |
| RM attribute | 140 to 180 | | |

6.10.3.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.29.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.29.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 9 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2468 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.30.1 Uplink

6.10.3.4.1.30.1.1 Transport channel parameters

6.10.3.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

| | | | |
|--------------|---|-----------|---------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 (alt. 128) |
| | Max data rate, bps | | 144 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 (alt. 144) |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 10x144) |
| | | TF3, bits | 4x336 (alt. 20x144) |
| | | TF4, bits | 8x336 (alt. 30x144) |
| | | TF5, bits | 9x336 (alt. 45x144) |
| | TTI, ms | | 20 (alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 9 516 (alt. 21 624) |
| | Max number of bits/radio frame before rate matching | | 4 758 (alt. 5 406) |
| | RM attribute | | 140 to 180 |

6.10.3.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.30.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.30.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot + SF2 x 1 codex 1 time slot |
| | Max. Number of data bits/radio frame | 2340 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 (alt. 0.40) |

6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

6.10.3.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.26.1.

6.10.3.4.1.31.2 Downlink

6.10.3.4.1.31.2.1 Transport channel parameters

6.10.3.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

| | | | |
|--------------|---|---------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | N/A (alt. 12x336) |
| | | TF6, bits | N/A (alt. 16x336) |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 (alt. 16 920) | |
| | Max number of bits/radio frame before rate matching | 8 460 (alt. 8 460) | |
| RM attribute | 135 to 175 | | |

6.10.3.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.31.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 (alt.14) |
| TFCS | (256 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.31.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.32.1 Uplink

See clause 6.10.3.4.1.26.1.

6.10.3.4.1.32.2 Downlink

6.10.3.4.1.32.2.1 Transport channel parameters

6.10.3.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| | | | |
|---|----------------------|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | N/A (alt. 16x336) |
| | | TF7, bits | N/A (alt. 20x336) |
| | TF8, bits | N/A (alt. 24x336) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 12 684 (alt. 25 368) | | |
| Max number of bits/radio frame before rate matching | 12 684 (alt. 12 684) | | |
| RM attribute | 110 to 150 | | |

6.10.3.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.32.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 (alt.18) |
| TFCS | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.32.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | | Physical Configuration 2 |
|--------------------------------------|-------------------------------|---|------------------------------|
| | Midamble | 256 chips | |
| Codes and time slots | SF16 x 8 codes x 3 time slots | SF16 x 6 codes x 4 time slots + SF16 x 4 codes x 1 time slot (alt. SF1 x 1 code x 3 time slots) | |
| Max. Number of data bits/radio frame | 6 608 bits | | 7 712 bits (alt. 13232 bits) |
| TFCI code word | 16 bits | | 16 bits |
| Puncturing Limit | 0.48 | | 0.60 (alt. 1) |

6.10.3.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.33.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.33.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.34.1 Uplink

6.10.3.4.1.34.1.1 Transport channel parameters

6.10.3.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| | | | |
|---|----------------------|----------------------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 384 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | N/A (alt. 16x336) |
| | | TF7, bits | N/A (alt. 20x336) |
| | TF8, bits | N/A (alt. 24x336) | |
| | TTI, ms | | 10 (alt. 20) |
| | Coding type | | TC |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 12 684 (alt. 25 368) | |
| Max number of bits/radio frame before rate matching | | 12 684 | |
| RM attribute | | 110 to 150 | |

6.10.3.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.34.1.1.3 TFCS

| | |
|-----------|-------------|
| TFCS size | 12 (alt.18) |
|-----------|-------------|

| | |
|--|--|
| TFCS | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.34.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | | Physical Configuration 2 | |
|--------------------------------------|-----------------------------|-----------|---|-----------|
| | Midamble | 256 chips | | 256 chips |
| Codes and time slots | SF2 x 1 code x 3 time slots | | SF2 x 1 code x 5 timeslots + SF4 x 1 code x 2 timeslots (alt. {SF2 x 1 code + SF4 x 1 code} x 4 timeslots) | |
| Max. Number of data bits/radio frame | 6 480 bits | | 13 104 bits | |
| TFCl code word | 16 bits | | 16 bits | |
| TPC | 2 bits | | 2 bits | |
| Puncturing Limit | 0.48 | | 1 | |

6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.35.1 Uplink

6.10.3.4.1.35.1.1 Transport channel parameters

See clause 6.10.3.4.1.26.1.1.

6.10.3.4.1.35.1.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 (alt. 0.80) |

6.10.3.4.1.35.2 Downlink

6.10.3.4.1.35.2.1 Transport channel parameters

6.10.3.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-----------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 2 048 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 656 |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| TF2, bits | | 2x656 | |

| Higher layer | RAB/Signalling RB | RAB |
|---|-----------------------|----------------------|
| | TF3, bits | 4x656 |
| | TF4, bits | 8x656 |
| | TF5, bits | 12x656 |
| | TF6, bits | 16x656 |
| | TF7, bits | 20x656 |
| | TF8, bits | 24x656 |
| | TF9, bits | 28x656 |
| | TF10, bits | 31x656 (alt. 32x656) |
| | TF11, bits | N/A (alt. 36x656) |
| | TF12, bits | N/A (alt. 40x656) |
| | TF13, bits | N/A (alt. 44x656) |
| | TF14, bits | N/A (alt. 48x656) |
| | TF15, bits | N/A (alt. 52x656) |
| | TF16, bits | N/A (alt. 56x656) |
| | TF17, bits | N/A (alt. 60x656) |
| | TF18, bits | N/A (alt. 64x656) |
| | TTI, ms | 10 (alt. 20) |
| | Coding type | TC |
| CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 62 565 (alt. 129 141) | |
| Max number of bits/radio frame before rate matching | 62 565 (alt. 64 571) | |
| RM attribute | 130 to 170 | |

6.10.3.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.35.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 21 (alt.38) |
| TFCS | (2 048 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.35.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | | Physical Configuration 2 | |
|--------------------------------------|------------------------------|--|--------------------------|--|
| | Midamble | 256 chips | 256 chips | |
| Codes and time slots | SF1 x 1 code x 11 time slots | SF16 x 13 codes x 4 time slots + SF16 x 12 codes x 7 time slot | | |
| Max. Number of data bits/radio frame | 48 560 bits (alt. 48 544) | 37 520 bits (alt. 37 504) | | |
| TFCI code word | 16 bits (alt. 32 bits) | 16 bits (alt. 32 bits) | | |
| Puncturing limit | 0.76 (alt.0.72) | 0.56 | | |

6.10.3.4.1.36 Void

6.10.3.4.1.37 Void

6.10.3.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38.1 Uplink

6.10.3.4.1.38.1.1 Transport channel parameters

6.10.3.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.10.3.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

6.10.3.4.1.38.2 Downlink

6.10.3.4.1.38.2.1 Transport channel parameters

6.10.3.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.

6.10.3.4.1.38.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38.2.2 Physical channel parameters

| | | |
|---------------|----------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |

| | | |
|--|--------------------------------------|----------|
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38a.1 Uplink

6.10.3.4.1.38a.1.1 Transport channel parameters

6.10.3.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 (alt. 128) |
| | Max data rate, bps | | 0 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 (alt. 144) |
| | TFS | TF0, bits | 0x336 (alt 0x144) |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 0 |
| | Max number of bits/radio frame before rate matching | | 0 |
| | RM attribute | | 130 to 170 |

6.10.3.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38a.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 |

6.10.3.4.1.38a.2 Downlink

6.10.3.4.1.38a.2.1 Transport channel parameters

6.10.3.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 0 | |
| | Max number of bits/radio frame before rate matching | 0 | |
| | RM attribute | 130 to 170 | |

6.10.3.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38b.1 Uplink

6.10.3.4.1.38b.1.1 Transport channel parameters

6.10.3.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38b.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 (alt. 17) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |

| | |
|-------|--|
| | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 (alt. 0.56) |

6.10.3.4.1.38b.2 Downlink

6.10.3.4.1.38b.2.1 Transport channel parameters

6.10.3.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38b.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38b.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38c.1 Uplink

6.10.3.4.1.38c.1.1 Transport channel parameters

6.10.3.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38c.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 (alt. 17) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38c.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.52) |

6.10.3.4.1.38c.2 Downlink

6.10.3.4.1.38c.2.1 Transport channel parameters

6.10.3.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38c.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38c.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 960 |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38d.1 Uplink

6.10.3.4.1.38d.1.1 Transport channel parameters

6.10.3.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------------------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 (alt. 128) | 320 (alt. 128) | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 (alt. 148) | | |
| | TFS | TF0, bits | 0x340 (alt 0x148) | |
| | | TF1, bits | 1x340 (alt 1x148) | |
| | | TF2, bits | 2x340 (alt 3x148) | |
| | | TF3, bits | 3x340 (alt 7x148) | |
| | | TF4, bits | 4x340 (alt 10x148) | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 (alt. 4 932) | | |
| | Max number of bits/radio frame before rate matching | 2 142 (alt. 2 466) | | |
| | RM attribute | 130 to 170 | | |

6.10.3.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38d.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38d.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.10.3.4.1.38d.2 Downlink

6.10.3.4.1.38d.2.1 Transport channel parameters

6.10.3.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| | Max number of bits/radio frame before rate matching | 2 142 | | |
| RM attribute | 130 to 170 | | | |

6.10.3.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38d.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38d.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 7 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 916 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38e.1 Uplink

6.10.3.4.1.38e.1.1 Transport channel parameters

6.10.3.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.10.3.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38e.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38e.1.2 Physical channel parameters

| | | |
|------------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| Puncturing Limit | 0.68 | |

6.10.3.4.1.38e.2 Downlink

6.10.3.4.1.38e.2.1 Transport channel parameters

6.10.3.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.10.3.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38e.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38e.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.38f Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38f.1 Uplink

6.10.3.4.1.38f.1.1 Transport channel parameters

6.10.3.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38f.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 (alt. 32) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38f.1.2 Physical channel parameters

| | | |
|-------------|----------|-----------|
| DPCH Uplink | Midamble | 512 chips |
|-------------|----------|-----------|

| | | |
|--|--------------------------------------|----------------------------|
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 (alt.0.56) |

6.10.3.4.1.38f.2 Downlink

6.10.3.4.1.38f.2.1 Transport channel parameters

6.10.3.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38f.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38f.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.38g Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38g.1 Uplink

6.10.3.4.1.38g.1.1 Transport channel parameters

6.10.3.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.10.3.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38g.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 32 (alt. 31) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1)) |
| NOTE 1: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |
| NOTE 2: | The alt. TFCS is used when the 16Kbps RAB alt. is used. |

6.10.3.4.1.38g.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot + SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 664 bits (alt. 696 bits) |
| | TFCI code word | 32 bits (alt. 16 bits) |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 (alt. 0.60) |

6.10.3.4.1.38g.2 Downlink

6.10.3.4.1.38g.2.1 Transport channel parameters

6.10.3.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.10.3.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38g.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38g.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 700 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.38h Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38h.1 Uplink

6.10.3.4.1.38h.1.1 Transport channel parameters

6.10.3.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38h.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38h.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot + SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 084 bits |
| | TFCI code word | 32 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt.0.60) |

6.10.3.4.1.38h.2 Downlink

6.10.3.4.1.38h.2.1 Transport channel parameters

6.10.3.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38h.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38h.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 944 |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.60 |

6.10.3.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38i.1 Uplink

6.10.3.4.1.38i.1.1 Transport channel parameters

6.10.3.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38i.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 48 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38i.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 936 bits |
| | TFCl code word | 32 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt.0.60) |

6.10.3.4.1.38i.2 Downlink

6.10.3.4.1.38i.2.1 Transport channel parameters

6.10.3.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38i.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), |

| | |
|-------|---|
| | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38i.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 7 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 900 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38j.1 Uplink

See clause 6.10.3.4.1.38i.1

6.10.3.4.1.38j.2 Downlink

6.10.3.4.1.38j.2.1 Transport channel parameters

6.10.3.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38j.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

| | |
|-------|--|
| | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.38j.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 6 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 3 280 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.64 |

6.10.3.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

6.10.3.4.1.39.2 Downlink

6.10.3.4.1.39.2.1 Transport channel parameters

6.10.3.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.39.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.39.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 936 bits |
| | TFCI code word | 16 bits |

| | | |
|--|------------------|------|
| | Puncturing limit | 0.68 |
|--|------------------|------|

6.10.3.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.40.1 Uplink

6.10.3.4.1.40.1.1 Transport channel parameters

6.10.3.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.40.1.1.4 TFCS

6.10.3.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.1.2 Physical channel parameters

6.10.3.4.1.40.1.2.1 Physical channel (one CCTrCH case)

| | | |
|-------------|----------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |

| | | |
|--|--------------------------------------|------------------|
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCl code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.64 (alt. 0.56) |

6.10.3.4.1.40.1.2.2 Physical channel (two CCTrCH case)

6.10.3.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 |

6.10.3.4.1.40.1.2.2.2 Physical channel (Interactive or background)

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.84 (alt. 0.72) |

6.10.3.4.1.40.2 Downlink

Transport channel parameters

6.10.3.4.1.40.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.40.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.40.2.1.4 TFCS

6.10.3.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.10.3.4.1.39.2.1.4.

6.10.3.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.2.2 Physical channel parameters

6.10.3.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.10.3.4.1.39.2.2.

6.10.3.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 204 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.41.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.41.2 Downlink

6.10.3.4.1.41.2.1 Transport channel parameters

6.10.3.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.41.2.1.4 TFCS

6.10.3.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.41.2.2 Physical channel parameters

6.10.3.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 5codes x 2time slots |
| | Max. Number of data bits/radio frame | 2 744 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.10.3.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,48 |

6.10.3.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.42.1 Uplink

6.10.3.4.1.42.1.1 Transport channel parameters

6.10.3.4.1.42.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.42.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.42.1.1.4 TFCS

See clause 6.10.3.4.1.40.1.1.4.1.

6.10.3.4.1.42.1.2 Physical channel parameters

See clause 6.10.3.4.1.40.1.2.1.

6.10.3.4.1.42.2 Downlink

6.10.3.4.1.42.2.1 Transport channel parameters

6.10.3.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.10.3.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.42.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 (alt. 42) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.42.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 2 time slots + SF16 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 5 504 bits (alt. 5 488) |

| | | |
|--|------------------|-------------------|
| | TFCI code word | 16 bits (alt. 32) |
| | Puncturing limit | 0.60 |

6.10.3.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

6.10.3.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.43.2.1.4 TFCS

6.10.3.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|--|
| TFCS size | 36 (alt. 54) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 6 (alt. 9) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0) (alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.43.2.2 Physical channel parameters

6.10.3.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 592 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.10.3.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,52 |

6.10.3.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.44.1 Uplink

6.10.3.4.1.44.1.1 Transport channel parameters

6.10.3.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.44.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.44.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | {SF8 x 1 code + SF2 x 1 code} x 1 time slot |
| | Max. Number of data bits/radio frame | 2 616 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.44) |

6.10.3.4.1.44.2 Downlink

6.10.3.4.1.44.2.1 Transport channel parameters

6.10.3.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.3.4.1.35.2.1.1.

6.10.3.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.44.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 12 codes x 11 time slots |
| | Max. Number of data bits/radio frame | 36 400 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.52 |

6.10.3.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.45.1 Uplink

6.10.3.4.1.45.1.1 Transport channel parameters

6.10.3.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

6.10.3.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.45.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.45.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot + SF4 x 1 codex 1 time slot |
| | Max. Number of data bits/radio frame | 1 392 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

6.10.3.4.1.45.2 Downlink

6.10.3.4.1.45.2.1 Transport channel parameters

6.10.3.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

6.10.3.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.45.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.45.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 448 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.46 Void

6.10.3.4.1.47 Void

6.10.3.4.1.48 Void

6.10.3.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

6.10.3.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.49.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.49.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.10.3.4.1.49.2 Downlink

6.10.3.4.1.49.2.1 Transport channel parameters

6.10.3.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.49.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.49.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.76 |

6.10.3.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49a.1 Uplink

6.10.3.4.1.49a.1.1 Transport channel parameters

6.10.3.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.49a.1.1.4 TFCS

| | |
|-----------|----|
| TFCS size | 24 |
|-----------|----|

| | |
|-------|--|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.49a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.10.3.4.1.49a.2 Downlink

6.10.3.4.1.49a.2.1 Transport channel parameters

6.10.3.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.49a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.49a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 7 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 916 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.50.1 Uplink

6.10.3.4.1.50.1.1 Transport channel parameters

6.10.3.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.50.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.50.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 1time slot + SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 784 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.60 |

6.10.3.4.1.50.2 Downlink

6.10.3.4.1.50.2.1 Transport channel parameters

6.10.3.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.50.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.50.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 6codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2 912 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51.1 Uplink

6.10.3.4.1.51.1.1 Transport channel parameters

6.10.3.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.51.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 (alt. 0.40) |

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.51.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51a.1 Uplink

6.10.3.4.1.51a.1.1 Transport channel parameters

6.10.3.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51a.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 (alt. 12) |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.51a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |

6.10.3.4.1.51a.2 Downlink

6.10.3.4.1.51a.2.1 Transport channel parameters

6.10.3.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.51a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 640 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.10.3.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51b.1 Uplink

6.10.3.4.1.51b.1.1 Transport channel parameters

6.10.3.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.10.3.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51b.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.51b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 |

6.10.3.4.1.51b.2 Downlink

See clause 6.10.3.4.1.51.2.

6.10.3.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.52.1 Uplink

See clause 6.10.3.4.1.51.1.

6.10.3.4.1.52.2 Downlink

6.10.3.4.1.52.2.1 Transport channel parameters

6.10.3.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.52.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.52.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | {SF16 x 8 codes x 1 time slot} + {SF16 x 5 codes x 1 time slot} |
| | Max. Number of data bits/radio frame | 3 156 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.44 |

6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.53.1 Uplink

6.10.3.4.1.53.1.1 Transport channel parameters

6.10.3.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.53.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.53.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 2 timeslots |
| | Max. Number of data bits/radio frame | 3 760 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

- 6.10.3.4.1.54 Void
- 6.10.3.4.1.55 Void
- 6.10.3.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.3.4.1.56.1 Uplink
- 6.10.3.4.1.56.1.1 Transport channel parameters
- 6.10.3.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------------------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 (alt. 128) | 320 (alt.128) | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 (alt. 148) | | |
| | TFS | TF0, bits | 0x340 (alt. 0x148) | |
| | | TF1, bits | 1x340 (alt. 1x148) | |
| | | TF2, bits | N/A (alt. 5x148) | |
| | TTI, ms | 40 (alt. 80) | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 (alt. 2 472) | | |
| | Max number of bits/radio frame before rate matching | 270 (alt. 309) | | |
| RM attribute | 135 to 175 | | | |

6.10.3.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.56.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 (alt. 6) |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) (alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.56.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits (alt. 16 bits).

- 6.10.3.4.1.56.2 Downlink
- 6.10.3.4.1.56.2.1 Transport channel parameters
- 6.10.3.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|-------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 | | |
| | Max number of bits/radio frame before rate matching | 270 | | |
| RM attribute | 135 to 175 | | | |

- 6.10.3.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

- 6.10.3.4.1.56.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

- 6.10.3.4.1.56.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

- 6.10.3.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.10.3.4.1.57.1 Uplink

- 6.10.3.4.1.57.1.1 Transport channel parameters

- 6.10.3.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

- 6.10.3.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

- 6.10.3.4.1.57.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.57.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 (alt. 0.76) |

6.10.3.4.1.57.2 Downlink

6.10.3.4.1.57.2.1 Transport channel parameters

6.10.3.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| | Max number of bits/radio frame before rate matching | 2 142 | | |
| RM attribute | 130 to 170 | | | |

6.10.3.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.57.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.57.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 364 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

- 6.10.3.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.3.4.1.58.1 Uplink
- 6.10.3.4.1.58.1.1 Transport channel parameters
- 6.10.3.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 068 | |
| | Max number of bits/radio frame before rate matching | 534 | |
| | RM attribute | 135 to 175 | |

- 6.10.3.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

- 6.10.3.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

- 6.10.3.4.1.58.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 (alt. 12) |
| TFCS | (16 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) (alt. (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

- 6.10.3.4.1.58.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot + SF16 x 1code x 1 time slot |
| | Max. Number of data bits/radio frame | 696 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.68) |

- 6.10.3.4.1.58.2 Downlink
- 6.10.3.4.1.58.2.1 Transport channel parameters
- 6.10.3.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 64 000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 076 | |
| | Max number of bits/radio frame before rate matching | 2 019 | |
| RM attribute | 125 to 165 | | |

6.10.3.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.58.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 16 |
| TFCS | (64 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.58.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF16 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 640 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.10.3.4.1.59 Reserved for future use

6.10.3.4.1.60 Reserved for future use

6.10.3.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.61.1 Uplink

6.10.3.4.1.61.1.1 Transport channel parameters

6.10.3.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 320 |

| | | | |
|--|---|------------------|------------------------|
| | Max data rate, bps | 8 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 328 (alt 0, 328) | |
| | TFS | TF0, bits | 0x328 (alt 1x0) (note) |
| | | TF1, bits | 1x328 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 044 | |
| | Max number of bits/radio frame before rate matching | 261 | |
| RM attribute | 135 to 175 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.61.1.1.4 TFCS

| | |
|---|--|
| TFCS size | 8 (alt. 12) |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.10.3.4.1.61.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt. 0.64) |

6.10.3.4.1.61.2 Downlink

6.10.3.4.1.61.2.1 Transport channel parameters

6.10.3.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

| | | |
|--------------|----------------------|------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 8 000 |
| | AMD PDU header, bit | 8 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 328 (alt 0, 328) |
| | TFS | TF0, bits |

| | | |
|-------|--|------------|
| | TF1, bits | 1x328 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 044 |
| | Max number of bits/radio frame before rate matching | 261 |
| | RM attribute | 135 to 175 |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | |

6.10.3.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.61.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.10.3.4.1.61.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.10.3.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.1.1 Uplink

6.10.3.4.2.1.1.1 Transport channel parameters

6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

| | | | | |
|--------------|-------------------------|----------------|---------------------|-------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | TM | |
| | Payload sizes, bit | 320 (alt. 128) | 168 | |
| | Max data rate, bps | 64 000 | 16 800 | |
| | AMD/TrD PDU header, bit | 16 | 0 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | USCH | USCH | |
| | TB sizes, bit | 337 (alt. 145) | 169 | |
| | TFS | TF0, bits | 0x337 (alt. 0x145) | 0x169 |
| | | TF1, bits | 1x337 (alt. 1x145) | 1x169 |
| | | TF2, bits | 2x337 (alt. 3x145) | N/A |
| | | TF3, bits | 3x337 (alt. 7x145) | N/A |
| | | TF4, bits | 4x337 (alt. 10x145) | N/A |
| | TTI, ms | 20 | 10 | |
| | Coding type | TC | CC 1/2 | |
| | CRC, bit | 16 | 16 | |

| | | | |
|--|---|--------------------|------------|
| | Max number of bits/TTI after channel coding | 4 248 (alt. 4 842) | 386 |
| | Max number of bits/radio frame before rate matching | 2 124 (alt. 2 421) | 386 |
| | RM attribute | 135 to 175 | 230 to 250 |

6.10.3.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

| | | | | | |
|--------------|---|--------------------------------|--------------|------------------------------|-----------------------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 5 | 5 | 5 | 5 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | USCH | | | |
| | TB sizes, bit | 149 | | | |
| | TFS | TF0, bits | 0x149 | | |
| | | TF1, bits | 1x149 | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 519 | | | |
| | Max number of bits/radio frame before rate matching | 130 | | | |
| | RM attribute | 190 to 210 | | | |

6.10.3.4.2.1.1.1.3 TFCS for USCH

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (64 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) |

6.10.3.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

6.10.3.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

| | | | | | | | |
|--------------|---|--------------------------------|--------------|--------------|------------------------------|-----------------------------|--------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#0 RRC | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio | SRB#5 RRC |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH |
| | RLC mode | TM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 168 | 136 | 128 | 128 | 128 | 168 |
| | Max data rate, bps | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 | 16 800 |
| | AMD/UMD/TrD PDU header, bit | 0 | 8 | 16 | 16 | 16 | 0 |
| MAC | MAC header, bit | 2 | 26 | 26 | 26 | 26 | 2 |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | RACH | | | | | |
| | TB sizes, bit | 170 | | | | | |
| | TFS TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | |
| | Coding type | CC 1/2 | | | | | |
| | CRC, bit | 16 | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | |
| | Max number of bits/radio frame before rate matching | 388 | | | | | |

6.10.3.4.2.1.1.4.2 RACH transport channel configuration with DTCH

| | | | | | | | | |
|--------------|---|-----------------------------------|--------|--------|--------|---------------------|--------------------|--------|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH |
| | RLC mode | AM | TM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 128 | 168 | 136 | 128 | 128 | 128 | 168 |
| | Max data rate, bps | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 | 16 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 | 0 |
| MAC | MAC header, bit | 26 | 2 | 26 | 26 | 26 | 26 | 2 |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS | TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/radio frame before rate matching | 388 | | | | | | |

6.10.3.4.2.1.1.2 Physical channel parameters

6.10.3.4.2.1.1.2.1 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.60 (alt. 0.56) |

6.10.3.4.2.1.1.2.2 Physical channel parameters for PRACH

| | | |
|-------|--------------------------------------|--|
| PRACH | Midamble | 512 chips |
| | Codes and time slots | SF8 (alt. SF16) x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 464 (alt. 232) |
| | Puncturing Limit | 1 (alt. 0.56) |

6.10.3.4.2.1.2 Downlink

6.10.3.4.2.1.2.1 Transport channel parameters

6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| | | | |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 |
| RLC | Logical channel type | DTCH | SHCCH |
| | RLC mode | AM | UM |
| | Payload sizes, bit | 320 | 160 |
| | Max data rate, bps | 256 000 | 16 000 |
| | AMD/UMD PDU header, bit | 16 | 8 |
| MAC | MAC header, bit | 1 | 1 |
| | MAC multiplexing | N/A | N/A |
| Layer 1 | TrCH type | DSCH | DSCH |
| | TB sizes, bit | 337 | 169 |

| | | | | |
|--|---|---------------------|-------------------|-------|
| | TFS | TF0, bits | 0x337 | 0x169 |
| | | TF1, bits | 1x337 | 1x169 |
| | | TF2, bits | 2x337 | N/A |
| | | TF3, bits | 4x337 | N/A |
| | | TF4, bits | 8x337 | N/A |
| | | TF5, bits | N/A (alt. 12x337) | N/A |
| | | TF6, bits | N/A (alt. 16x337) | N/A |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| | CRC, bit | 16 | 16 | |
| | Max number of bits/TTI after channel coding | 8 484 (alt. 16 968) | 386 | |
| | Downlink: Max number of bits/radio frame before rate matching | 8 484 (alt. 8 484) | 386 | |
| | RM attribute | 135 to 175 | 230 to 250 | |

6.10.3.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

| | | | | | | |
|--------------|---|--------------------------------|--------------|------------------------------|-----------------------------|--|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio | |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | |
| | RLC mode | UM | AM | AM | AM | |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 | |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 5 | 5 | 5 | 5 | |
| | MAC multiplexing | 4 logical channel multiplexing | | | | |
| Layer 1 | TrCH type | DSCH | | | | |
| | TB sizes, bit | 149 | | | | |
| | TFS | TF0, bits | 0x149 | | | |
| | | TF1, bits | 1x149 | | | |
| | TTI, ms | 40 | | | | |
| | Coding type | CC 1/3 | | | | |
| | CRC, bit | 16 | | | | |
| | Max number of bits/TTI before rate matching | 519 | | | | |
| | Max number of bits/radio frame before rate matching | 130 | | | | |
| | RM attribute | 155 to 165 | | | | |

6.10.3.4.2.1.2.1.3 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 20 (alt. 28) |
| TFCS | (256 kbps RAB, SHCCH, SRB for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1)) |

6.10.3.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.10.3.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

| | | | | | | | | | |
|---|---|--------------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 | |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC | |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH | |
| | RLC mode | UM | UM | AM | AM | AM | UM | TM | |
| | Payload sizes, bit | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 8 | 8 | 16 | 16 | 16 | 8 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 | |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | |
| | TB sizes, bit | 171 | | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits | 2x171 | | | | | | |
| | | TF3, bits | 3x171(alt. N/A) | | | | | | |
| | | TF4, bits | 4x171(alt. N/A) | | | | | | |
| | TTI, ms | 20 | | | | | | | |
| | Coding type | TC | | | | | | | |
| | CRC, bit | 16 | | | | | | | |
| | Max number of bits/TTI after channel coding | 2 256 (alt. 1 134) | | | | | | | |
| Max number of bits/radio frame before rate matching | 1 128 (alt. 567) | | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | | |

6.10.3.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| | | | | | | | | | | |
|---|---|-----------------------------------|-------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 | |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC | |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH | |
| | RLC mode | AM | UM | UM | AM | AM | AM | UM | TM | |
| | Payload sizes, bit | 320 | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 16 | 8 | 8 | 16 | 16 | 16 | 8 | 0 | |
| MAC | MAC header, bit | 27 | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 | |
| | MAC multiplexing | 8 logical channel multiplexing | | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | | |
| | TB sizes, bit | 171, 363 | | | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | | | |
| | | TF1, bits | 1x171 | | | | | | | |
| | | TF2, bits | 2x171 | | | | | | | |
| | | TF3, bits | 1x363 | | | | | | | |
| | | TF4, bits | 3x171 (alt N/A) | | | | | | | |
| | | TF5, bits | 4x171 (alt. N/A) | | | | | | | |
| | | TF6, bits | 2x363 (alt. N/A) | | | | | | | |
| | TTI, ms | 20 | | | | | | | | |
| | Coding type | TC | | | | | | | | |
| | CRC, bit | 16 | | | | | | | | |
| | Max number of bits/TTI after channel coding | 2 286 (alt. 1 149) | | | | | | | | |
| Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | | | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | | | |

6.10.3.4.2.1.2.1.5 TFCS for FACH

6.10.3.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

6.10.3.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

| | |
|-----------|---|
| TFCS size | 7 (alt. 4) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3)) |

6.10.3.4.2.1.2.2 Physical channel parameters

6.10.3.4.2.1.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.44 |

6.10.3.4.2.1.2.2.2 Physical channel parameters for SCCPCH

6.10.3.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

| | | |
|--------|--------------------------------------|--|
| SCCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |
| | Puncturing Limit | 1 (alt. 0.84) |

6.10.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| | | |
|--------|--------------------------------------|--|
| SCCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472 bits) |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 1 (alt. 0.80) |

6.10.3.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.2.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.2.2 Downlink

6.10.3.4.2.2.2.1 Transport channel parameters

6.10.3.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| | | | |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 |
| RLC | Logical channel type | DTCH | SHCCH |
| | RLC mode | AM | UM |
| | Payload sizes, bit | 320 | 160 |
| | Max data rate, bps | 384 000 | 16 000 |
| | AMD/UMD PDU header, bit | 16 | 8 |

| | | | | |
|---|----------------------|-------------------|-------------------|-------|
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DSCH | DSCH | |
| | TB sizes, bit | 337 | 169 | |
| | TFS | TF0, bits | 0x337 | 0x169 |
| | | TF1, bits | 1x337 | 1x169 |
| | | TF2, bits | 2x337 | N/A |
| | | TF3, bits | 4x337 | N/A |
| | | TF4, bits | 8x337 | N/A |
| | | TF5, bits | 12x337 | N/A |
| | | TF6, bits | N/A (alt. 16x337) | N/A |
| | | TF7, bits | N/A (alt. 20x337) | N/A |
| | TF8, bits | N/A (alt. 24x337) | N/A | |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| CRC, bit | 16 | 16 | | |
| Max number of bits/TTI after channel coding | 12 720 (alt. 25 440) | 386 | | |
| Downlink: Max number of bits/radio frame before rate matching | 12 720 (alt. 12 720) | 386 | | |
| RM attribute | 135 to 175 | 230 to 250 | | |

6.10.3.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.10.3.4.2.2.1.3 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 24 (alt. 36) |
| TFCS | (384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)) |

6.10.3.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.10.3.4.2.2.2 Physical channel parameters

6.10.3.4.2.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits (alt. 6 592 bits) |
| | TFCI code word | 16 bits (alt. 32 bits) |
| | Puncturing Limit | 0.48 |

6.10.3.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.

6.10.3.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
|---|-------------------------|-------------------|----------------------|-------|
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | UM | |
| | Payload sizes, bit | 640 | 160 | |
| | Max data rate, bps | 2 048 000 | 16 000 | |
| | AMD/UMD PDU header, bit | 16 | 8 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DSCH | DSCH | |
| | TB sizes, bit | 657 | 169 | |
| | TFS | TF0, bits | 0x657 | 0x169 |
| | | TF1, bits | 1x657 | 1x169 |
| | | TF2, bits | 2x657 | N/A |
| | | TF3, bits | 4x657 | N/A |
| | | TF4, bits | 8x657 | N/A |
| | | TF5, bits | 12x657 | N/A |
| | | TF6, bits | 16x657 | N/A |
| | | TF7, bits | 20x657 | N/A |
| | | TF8, bits | 24x657 | N/A |
| | | TF9, bits | 28x657 | N/A |
| | | TF10, bits | 30x657 (alt. 32x657) | N/A |
| | | TF11, bits | N/A (alt. 36x657) | N/A |
| | | TF12, bits | N/A (alt. 40x657) | N/A |
| | | TF13, bits | N/A (alt. 44x657) | N/A |
| | | TF14, bits | N/A (alt. 48x657) | N/A |
| | | TF15, bits | N/A (alt. 52x657) | N/A |
| | | TF16, bits | N/A (alt. 56x657) | N/A |
| | | TF17, bits | N/A (alt. 60x657) | N/A |
| | TF18, bits | N/A (alt. 64x657) | N/A | |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| CRC, bit | 16 | 16 | | |
| Max number of bits/TTI after channel coding | 60 624 (alt. 129 330) | 386 | | |
| Downlink: Max number of bits/radio frame before rate matching | 60 624 (alt. 64 665) | 386 | | |
| RM attribute | 135 to 175 | 230 to 250 | | |

6.10.3.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.10.3.4.2.3.2.1.3 TFCS for DSCH

| | |
|-----------|--|
| TFCS size | 41 (alt.76) |
| TFCS | (2 048 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), |

| |
|--|
| (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0),(TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1, TF0),(TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1), (TF11, TF0, TF1), (TF12, TF0, TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1), (TF16, TF0, TF1), (TF17, TF0, TF1), (TF18, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1, TF1),(TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (TF15, TF1, TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1)) |
|--|

6.10.3.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.4.1.

6.10.3.4.2.3.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.45.1.

6.10.3.4.2.3.2.2 Physical channel parameters

6.10.3.4.2.3.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|---------------------------------|
| PDSCH | Midamble | 256 chips |
| | Codes and time slots | SF16 x 12 codes x 11 time slots |
| | Max. Number of data bits/radio frame | 36 400 bits |
| | TFCI code word | 32 bits |
| | Puncturing Limit | 0.56 (alt. 0.52) |

6.10.3.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.2.4 Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.4.1 Uplink

6.10.3.4.2.4.1.1 Transport channel parameters

6.10.3.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| | | | | |
|--------------|-------------------------|----------------|--------------------|-------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | TM | |
| | Payload sizes, bit | 320 (alt. 128) | 168 | |
| | Max data rate, bps | 384 000 | 16 800 | |
| | AMD/TrD PDU header, bit | 16 | 0 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | USCH | USCH | |
| | TB sizes, bit | 337 (alt. 145) | 169 | |
| | TFS | TF0, bits | 0x337 (alt. 0x145) | 0x169 |
| | | TF1, bits | 1x337 (alt. 1x145) | 1x169 |

| | | | |
|--|---|----------------------|------------|
| | TF2, bits | 2x337 (alt. 5x145) | N/A |
| | TF3, bits | 4x337 (alt. 10x145) | N/A |
| | TF4, bits | 8x337 (alt. 20x145) | N/A |
| | TF5, bits | 12x337 (alt. 30x145) | N/A |
| | TF6, bits | 16x337 (alt. 40x145) | N/A |
| | TF7, bits | 20x337 (alt. 50x145) | N/A |
| | TF8, bits | 24x337 (alt. 60x145) | N/A |
| | TTI, ms | 20 | 10 |
| | Coding type | TC | CC 1/2 |
| | CRC, bit | 16 | 16 |
| | Max number of bits/TTI after channel coding | 25 440 (alt. 29 004) | 386 |
| | Max number of bits/radio frame before rate matching | 12 720 (alt. 14 502) | 386 |
| | RM attribute | 135 to 175 | 230 to 250 |

6.10.3.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

6.10.3.4.2.4.1.1.3 TFCS for USCH

| | |
|-----------|---|
| TFCS size | 36 |
| TFCS | (384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1) (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1) |

6.10.3.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

6.10.3.4.2.4.1.2 Physical channel parameters

6.10.3.4.2.4.1.2.1 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|-----------------------------|
| PUSCH | Midamble | 512 chips |
| | Codes and time slots | SF1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 7 264 bits |
| | TFCI code word | 32 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.44) |

6.10.3.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

6.10.3.4.2.4.2 Downlink

6.10.3.4.2.4.2.1 Transport channel parameters

See clause 6.10.3.4.2.3.2.1.

6.10.3.4.2.4.2.2 Physical channel parameters

6.10.3.4.2.4.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|----------|-----------|
| PDSCH | Midamble | 256 chips |
|-------|----------|-----------|

| | | |
|--|--------------------------------------|------------------------------|
| | Codes and time slots | SF1 x 1 codes x 9 time slots |
| | Max. Number of data bits/radio frame | 39 712 bits |
| | TFCI code word | 32 bits |
| | Puncturing Limit | 0.64 (alt. 0.60) |

6.10.3.4.2.4.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.10.3.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps
 SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL:
 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH SHCCH and
 BCCH

6.10.3.4.3.1.1 Uplink

6.10.3.4.3.1.1.1 Transport channel parameters

6.10.3.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB
 and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.10.3.4.3.1.1.1.5 TFCS for USCH

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.3.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

| | | | |
|--------------|---|--------------------------------|--------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#5 |
| | User of Radio Bearer | RRC | RRC |
| RLC | Logical channel type | CCCH | SHCCH |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 168 | 168 |
| | Max data rate, bps | 16 800 | 16 800 |
| | TrD PDU header, bit | 0 | 0 |
| MAC | MAC header, bit | 2 | 2 |
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | RACH | |
| | TB sizes, bit | 170 | |
| | TFS | TF0, bits | |
| | TTI, ms | 10 | |
| | Coding type | CC 1/2 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 388 | |
| | Max number of bits/radio frame before rate matching | 388 | |

6.10.3.4.3.1.1.2 Physical channel parameters

6.10.3.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.1.2.

6.10.3.4.3.1.1.2.2 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 (alt. 0.68) |

6.10.3.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

6.10.3.4.3.1.2 Downlink

6.10.3.4.3.1.2.1 Transport channel parameters

6.10.3.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.10.3.4.3.1.2.1.5 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 10 (alt. 14) |
| TFCS | (256 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |

6.10.3.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| | | | | |
|--------------|-------------------------|--------------------------------|----------------------|----------------------|
| Higher layer | RAB/Signalling RB | SRB#0 | SRB#5 | SRB#6 |
| | User of Radio Bearer | RRC | RRC | RRC |
| RLC | Logical channel type | CCCH | SHCCH | BCCH |
| | RLC mode | UM | UM | TM |
| | Payload sizes, bit | 160 | 160 | 168 |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
| | UMD/TrD PDU header, bit | 8 | 8 | 0 |
| MAC | MAC header, bit | 3 | | |
| | MAC multiplexing | 3 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 171 | | |
| | TFS | TF0, bits | 0x171 | |
| | | TF1, bits | 1x171 | |

| | | |
|--|---|--------------------|
| | TF2, bits | 2x171 |
| | TF3, bits | 3x171 (alt. N/A) |
| | TF4, bits | 4x171 (alt. N/A) |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 2 256 (alt. 1 134) |
| | Max number of bits/radio frame before rate matching | 1 128 (alt 567) |

6.10.3.4.3.1.2.1.7 TFCS for FACH

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

6.10.3.4.3.1.2.2 Physical channel parameters

6.10.3.4.3.1.2.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.3.1.2.2.2 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.48 |

6.10.3.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.2.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.2.2 Downlink

6.10.3.4.3.2.2.1 Transport channel parameters

6.10.3.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.10.3.4.3.2.2.1.5 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 12 (alt. 18) |
| TFCS | (384 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |

6.10.3.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.2.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.2.2.2 Physical channel parameters

6.10.3.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.3.2.2.2.2 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 256 chips |
| | Codes and time slots | SF16 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.48 |

6.10.3.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps
SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL:
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and
BCCH

6.10.3.4.3.3.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.3.2 Downlink

6.10.3.4.3.3.2.1 Transport channel parameters

6.10.3.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS
RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.3.2.1.1.

6.10.3.4.3.3.2.1.5 TFCS for DSCH

| | |
|-----------|--|
| TFCS size | 22 (alt. 38) |
| TFCS | (2 048 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1)) |

6.10.3.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.3.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.3.2.2 Physical channel parameters

6.10.3.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.3.3.2.2.2 Physical channel parameters for PDSCH

| | | |
|---------------|--------------------------------------|----------------------------|
| DPCH Downlink | Midamble | 256 chips |
| | Codes and time slots | SF1 x 1 code x 7 time slot |
| | Max. Number of data bits/radio frame | 30 896 bits (alt. 30 880) |
| | TFCI code word | 16 bits (alt. 32 bits) |
| | Puncturing limit | 0.48 (alt. 0.44) |

6.10.3.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.4 Combinations on SCCPCH

6.10.3.4.4.1 Stand-alone signalling RB for PCCH

6.10.3.4.4.1.1 Transport channel parameters

6.10.3.4.4.1.1.1 Transport channel parameter of SRB for PCCH

| | | | |
|--------------|----------------------|---------------------|-------------------|
| Higher layer | RAB/signalling RB | SRB | |
| | User of Radio Bearer | RRC | |
| RLC | Logical channel type | PCCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 240 (alt. 80) | |
| | Max data rate, bps | 12 000 (alt. 8 000) | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | PCH | |
| | TB sizes, bit | 240 (alt. 80) | |
| | TFS | TF0, bts | 0x240 (alt. 0x80) |
| | | TF1, bits | 1x240 (alt. 1x80) |
| | | TF2, bits | N/A (alt. 2x80) |
| | TTI, ms | 20 | |

| | | |
|--|---|----------------|
| | Coding type | CC 1/2 |
| | CRC, bit | 16 |
| | Max number of bits/TTI before rate matching | 528 (alt. 400) |
| | Max number of bits/radio frame before rate matching | 264 (alt. 200) |
| | RM attribute | 210 to 250 |

6.10.3.4.4.1.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 2 (alt. 3) |
| TFCS | SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2)) |

6.10.3.4.4.1.2 Physical channel parameters

| | | |
|---------|--------------------------------------|--|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot (alt. SF16 x 1 code x 1 time slot) |
| | Max. Number of data bits/radio frame | 480 bits (alt. 236 bits) |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |

6.10.3.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2.1 Transport channel parameters

6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| | | | | |
|--------------|---|-----------------------------|------------------|--|
| Higher layer | RAB/signalling RB | RAB | | |
| | User of Radio Bearer | Interactive/ Background RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 | | |
| | Max data rate, bps | 32 000 (alt. 16 000) | | |
| | AMD PDU header, bit | 16 | | |
| MAC | MAC header, bit | 27 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 363 | | |
| | TFS | TF0, bits | 0 x363 | |
| | | TF1, bits | 1x363 | |
| | | TF2, bits | 2x363 (alt. N/A) | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI before rate matching | 2 286 (alt. 1 149) | | |
| | Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | | |
| | RM attribute | 110 to 150 | | |

6.10.3.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| | | | | | | | |
|--------------|----------------------|-------|----------------------|-------|---------------------|--------------------|-------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High_prio | NAS_DT Low_prio | RRC |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH |
| | RLC mode | UM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 160 | 136 or 120 (note) | 128 | 128 | 128 | 168 |

| | | | | | | | | |
|---|---|--------------------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|--|
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 24 000 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 8 | 8 | 16 | 16 | 16 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | |
| | TB sizes, bit | 171 | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | |
| | | TF1, bits | 1x171 | | | | | |
| | | TF2, bits | 2x171 | | | | | |
| | | TF3, bits | 3x171 (alt. N/A) | | | | | |
| | | TF4, bits | 4x171 (alt. N/A) | | | | | |
| | TTI, ms | 20 | | | | | | |
| | Coding type | TC | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI before rate matching | 2 256 (alt. 1 134) | | | | | | |
| Max number of bits/radio frame before rate matching | 1 128 (alt. 567) | | | | | | | |
| RM attribute | 200 to 240 | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | |

6.10.3.4.4.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt. 4) |
| TFCS | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0)) |
| NOTE: | First TFCS applies when the alternative for the 3 2kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

6.10.3.4.4.2.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 (alt. 0.48) |

6.10.3.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2a.1 Transport channel parameters

6.10.3.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

| | | | |
|--------------|----------------------|----------------------------|----------------------------|
| Higher layer | RAB/Signalling RB | RAB | RAB |
| | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB |
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) |
| | AMD PDU header, bit | 16 | 16 |
| MAC | MAC header, bit | 27 | 27 |

| | | | |
|--------------|---|--------------------------------|------------------|
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 363 | |
| | TFS | TF0, bits | 0x363 |
| | | TF1, bits | 1x363 |
| | | TF2, bits | 2x363 (alt. N/A) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 2 286 (alt. 1 149) | |
| | Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | |
| RM attribute | 110 to 150 | | |

6.10.3.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.2a.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt. 4) |
| TFCS | (32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0)) |
| NOTE: | First TFCS applies when the alternative for the 32 kbps RABs and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RABs and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

6.10.3.4.4.2a.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 (alt. 0.48) |

6.10.3.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2b.1 Transport channel parameters

6.10.3.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.2b.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | (SRBs for CCCH/DCCH/BCCH) = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2)) |

6.10.3.4.4.2b.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |

| | | | |
|--|------------------|--|---------------|
| | Puncturing limit | | 1 (alt. 0.84) |
|--|------------------|--|---------------|

6.10.3.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3.1 Transport channel parameters

6.10.3.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 (alt. 8) |
| TFCS | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) = (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4) (alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0)) |
| NOTE: | Alt. TFCS applies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all configured. |

6.10.3.4.4.3.2 Physical channel parameters

| | | |
|---------|---|---|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 936 bits (alt. 472 bits) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 (alt. 0.56) |
| NOTE: | Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/ BCCH are both configured. | |

6.10.3.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3a.1 Transport channel parameters

6.10.3.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3a.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 (alt.7) |
| TFCS | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1)) |
| NOTE: | Alt. TFCS applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured. |

6.10.3.4.4.3a.2 Physical channel parameters

| | | |
|--|--------------------------------------|---|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 5 codes x 1 time slot (alt. SF16 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |
| | Puncturing limit | 0.84 (alt. 0.84) |
| NOTE: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured. | | |

6.10.3.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.3.4.4.4.1 Transport channel parameters

6.10.3.4.4.4.1.1 Transport channel parameters of RB for CTCH

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/signalling RB | N/A | |
| | User of Radio Bearer | BMC | |
| RLC | Logical channel type | CTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 152 | |
| | Max data rate, bps | 15 200 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 3 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 163 | |
| | TFS | TF0, bits | 0x163 |
| | | TF1, bits | 1x163 |
| | | TF2, bits | 2x163 |
| | TTI, ms | 20 | |
| | Coding type | CC 1/3 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 1 098 | |
| | Max number of bits/radio frame before rate matching | 549 | |
| | RM attribute | 200 to 240 | |

6.10.3.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#5 | |
| | User of Radio Bearer | RRC | RRC | |
| RLC | Logical channel type | CCCH | BCCH | |
| | RLC mode | UM | TM | |
| | Payload sizes, bit | 160 | 168 | |
| | Max data rate, bps | 16 000 | 16 800 | |
| | AMD/UMD/TrD PDU header, bit | 8 | 0 | |
| MAC | MAC header, bit | 3 | 3 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 171 | | |
| | TFS | TF0, bits | 0x171 | |
| | | TF1, bits | 1x171 | |
| | | TF2, bits | 2x171 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI before rate matching | 1 134 | | |
| | Max number of bits/radio frame before rate matching | 567 | | |
| | RM attribute | 200 to 240 | | |

6.10.3.4.4.4.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (RB for CTCH, SRBs for CCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0) |

6.10.3.4.4.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.80 |

6.10.3.4.4.5 64.8kbps RB for MTCH with 80 ms TTI

6.10.3.4.4.5.1 Transport channel parameters

6.10.3.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | MBMS | |
| RLC | Logical channel type | MTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 648 | |
| | Max data rate, bps | 64800 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 8 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 664 | |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | TF8, bits | 8x664 | |
| | TTI, ms | 80 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 16344 | |
| Max number of bits/radio frame before rate matching | 2043 | | |
| RM attribute | 160 | | |

6.10.3.4.4.5.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 9 |
| TFCS | 64 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.10.3.4.4.5.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1936 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.10.3.4.4.6 129.6kbps RB for MTCH with 80 ms TTI

6.10.3.4.4.6.1 Transport channel parameters

6.10.3.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 80 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 32679 | |
| Max number of bits/radio frame before rate matching | | 4085 | |
| RM attribute | | 160 | |

6.10.3.4.4.6.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.3.4.4.6.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF1 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 3888 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.10.3.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.10.3.4.4.7.1 Transport channel parameters

6.10.3.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 40 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 32679 | |
| Max number of bits/radio frame before rate matching | | 8170 | |
| RM attribute | | 160 | |

6.10.3.4.4.7.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.3.4.4.7.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF1 x 1 codes x 2 time slot |
| | Max. Number of data bits/radio frame | 7792 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.10.3.4.4.8 7.6 kbps signalling RB for MCCH

6.10.3.4.4.8.1 Transport channel parameters

6.10.3.4.4.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 7600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 160 |
| | TFS | TF0, bits | 0x160 |
| | | TF1, bits | 1x160 |
| | TTI, ms | | 20 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 552 |
| | Max number of bits/radio frame before rate matching | | 276 |
| | RM attribute | | 160 |

6.10.3.4.4.8.1.2 TFCS

| | |
|-----------|--------------------|
| TFCS size | 2 |
| TFCS | MBMS SRB =TF0, TF1 |

6.10.3.4.4.8.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF16 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.80 |

6.10.3.4.4.9 124.4kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.9.1 Transport channel parameters

6.10.3.4.4.9.1.1 Transport channel parameters for 124 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 124400 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4993 |
| | TFS | TF0, bits | 0x4993 |
| | | TF1, bits | 1x4993 |
| | | TF2, bits | 2x4993 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 30078 |
| | Max number of bits/radio frame before rate matching | | 3760 |
| RM attribute | | 128 | |

6.10.3.4.4.9.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 124 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.9.2 Physical channel parameters

| | | |
|---------|--------------------------------------|----------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF1 x 1 code x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 4208 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 1 |

6.10.3.4.4.10 320.4kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.10.1 Transport channel parameters

6.10.3.4.4.10.1.1 Transport channel parameters for 320 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4272 |
| | Max data rate, bps | | 320400 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4289 |
| | TFS | TF0, bits | 0x4289 |
| | | TF1, bits | 1x4289 |
| | | TF2, bits | 6x4289 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 77562 |
| | Max number of bits/radio frame before rate matching | | 9696 |
| RM attribute | | 128 | |

6.10.3.4.4.10.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 320 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.10.2 Physical channel parameters

| | | |
|---------|--------------------------------------|----------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF1 x 1 code x 1 time slot |
| | Modulation | 16QAM |
| | Max. Number of data bits/radio frame | 8432 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.84 |

6.10.3.4.4.11 497.6kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.11.1 Transport channel parameters

6.10.3.4.4.11.1.1 Transport channel parameters for 496 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 497600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4993 |
| | TFS | TF0, bits | 0x4993 |
| | | TF1, bits | 1x4993 |
| | | TF2, bits | 8x4993 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 120312 |
| | Max number of bits/radio frame before rate matching | | 15039 |
| RM attribute | | 128 | |

6.10.3.4.4.11.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 496 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.11.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF1 x 1 code x 2 time slots |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 8432 bits |
| | TFCI code word | (16,5) in first slot only |
| | Puncturing limit | 0.56 |

6.10.3.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

6.10.3.4.4.12.1 Transport channel parameters

6.10.3.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 72 |
| | Max data rate, bps | | 7200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 80 |
| | TFS | TF0, bits | 0x80 |
| | | TF1, bits | 1x80 |
| | | TF2, bits | 2x80 |
| | | TF3, bits | 4x80 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1164 |
| | Max number of bits/radio frame before rate matching | | 291 |
| RM attribute | | 128 | |

6.10.3.4.4.12.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 4 |
| TFCS | MBMS SRB =TF0, TF1, TF2, TF3 |

6.10.3.4.4.12.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 248 bits |
| | Modulation | QPSK |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.84 |

6.10.3.4.5 Combinations on PRACH

6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

6.10.3.4.5.1.1 Transport channel parameters

6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

| | | | | | | |
|--------------|-----------------------------|--------|--------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 2 | 26 | 26 | 26 | 26 |

| | | | | | | |
|---------|---|--------------------------------|-------|--|--|--|
| | MAC multiplexing | 5 logical channel multiplexing | | | | |
| Layer 1 | TrCH type | RACH | | | | |
| | TB sizes, bit | 170 | | | | |
| | TFS | TF0, bits | 1x170 | | | |
| | TTI, ms | 10 | | | | |
| | Coding type | CC 1/2 | | | | |
| | CRC, bit | 16 | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | |
| | Max number of bits/Radio frame before rate matching | 388 | | | | |

6.10.3.4.5.1.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 1 |
| TFCS | SRBs for CCCH/ DCCH = (TF0) |

6.10.3.4.5.1.2 Physical channel parameters

| | | |
|-------|--------------------------------------|--|
| PRACH | Midamble | 512 chips |
| | Codes and time slots | SF8 (alt. SF16) x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 488 bits (alt. 244 bits) |
| | Puncturing Limit | 1.0 (alt. 0.60) |

6.10.3.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.3.4.5.2.1 Transport channel parameters

| Higher layer | RAB/signalling RB User of Radio Bearer | RAB Interactive/ Background RAB | SRB#0 RRC | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High priority | SRB#4 NAS_DT Low priority |
|--------------|--|--|--------------|--------------|--------------|----------------------------------|---------------------------------|
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 128 | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 26 | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | RACH | | | | | |
| | TB sizes, bit | 170 | | | | | |
| | TFS | TF0, bits | 1x170 | | | | |
| | TTI, ms | 10 | | | | | |
| | Coding type | CC 1/2 | | | | | |
| | CRC, bit | 16 | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | |
| | Max number of bits/ Radio frame before rate matching | 388 | | | | | |

6.10.3.4.5.2.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

6.10.3.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.3.4.5.3.1 Transport channel parameters

| Higher | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------|-------------------|-----|-----|-------|-------|-------|-------|-------|
|--------|-------------------|-----|-----|-------|-------|-------|-------|-------|

| layer | User of Radio Bearer | Interactive/ Background RAB | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
|---------|--|-----------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|
| RLC | Logical channel type | DTCH | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 128 | 128 | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 12 800 | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 16 | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 26 | 26 | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS TF0, bits | 1x170 | | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/ Radio frame before rate matching | 388 | | | | | | |

6.10.3.4.5.3.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

6.10.3.4.6 Combinations on DPCH and HS-PDSCH

6.10.3.4.6.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.1.1 Uplink

See clause 6.10.3.4.1.26.1.

6.10.3.4.6.1.2 Downlink

6.10.3.4.6.1.2.1 Transport channel parameters

6.10.3.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RAB |
|---|-------------------------------|---------------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | AMD PDU header, bit | 16 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 10 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | |

6.10.3.4.6.1.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.1.2.1.2.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.6.1.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.1.2.2 Physical channel parameters

6.10.3.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Physical parameters common for all UE physical layer categories

| | | |
|----------|----------|-----------|
| HS-PDSCH | Midamble | 512 chips |
|----------|----------|-----------|

UE HS-DSCH Physical Layer category 1:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 2 |
| | Max Data Rate | 1.2 Mbps |

UE HS-DSCH Physical Layer category 2:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 1.2 Mbps |

UE HS-DSCH Physical Layer category 3:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 4 |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 4:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 5:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 6 |
| | Max Data Rate | |

| | | |
|--|---------------|----------|
| | Max Data Rate | 3.6 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 6:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 3.6 Mbps |

UE HS-DSCH Physical Layer category 7:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 5.3 Mbps |

UE HS-DSCH Physical Layer category 8:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 7.3 Mbps |

UE HS-DSCH Physical Layer category 9:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 10.2 Mbps |

6.10.3.4.6.2 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.2.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.6.2.2 Downlink

6.10.3.4.6.2.2.1 Transport channel parameters

6.10.3.4.6.2.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.2.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.2.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.2.2.2 Physical channel parameters

6.10.3.4.6.2.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2..

6.10.3.4.6.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.3 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.3.1 Uplink

See clause 6.10.3.4.1.34.1.

6.10.3.4.6.3.2 Downlink

6.10.3.4.6.3.2.1 Transport channel parameters

6.10.3.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.3.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.3.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.3.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.3.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.3.2.2 Physical channel parameters

6.10.3.4.6.3.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2..

6.10.3.4.6.3.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.4.1 Uplink

6.10.3.4.6.4.1.1 Transport channel parameters

6.10.3.4.6.4.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.6.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.10.3.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.4.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 36 (alt. 54) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |

6.10.3.4.6.4.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 3 time slots |
| | Max. Number of data bits/radio frame | 6 480 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

6.10.3.4.6.4.2 Downlink

6.10.3.4.6.4.2.1 Transport channel parameters

6.10.3.4.6.4.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.4.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.4.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.4.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.6.4.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.4.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.6.4.2.2 Physical channel parameters

6.10.3.4.6.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.5.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.6.5.2 Downlink

6.10.3.4.6.5.2.1 Transport channel parameters

6.10.3.4.6.5.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.5.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.5.2.1.2.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.6.5.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.5.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.6.5.2.2 Physical channel parameters

6.10.3.4.6.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.6 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.6.1 Uplink

6.10.3.4.6.6.1.1 Transport channel parameters

6.10.3.4.6.6.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.6.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.10.3.4.6.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.6.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 (alt. 36) |
| TFCS | (64 kbps RAB, 384 kbps RAB , DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1)) |

6.10.3.4.6.6.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 256 chips |
| | Codes and time slots | SF2 x 1 code x 3 time slots |
| | Max. Number of data bits/radio frame | 6 480 bits |
| | TFCS code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.40 |

6.10.3.4.6.6.1 Downlink

6.10.3.4.6.6.2.1 Transport channel parameters

6.10.3.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.6.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.6.2.1.1 Transport channel parameters for DCH

6.10.3.4.6.6.2.1.2.1 Transport channel parameters for Conversational / unkown/ DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.6.2.1.2.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.10.3.4.6.6.2.2 Physical channel parameters

6.10.3.4.6.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.7 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.7.1 Uplink

See clause 6.10.3.4.1.57.1.

6.10.3.4.6.7.2 Downlink

6.10.3.4.6.7.2.1 Transport channel parameters

6.10.3.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.7.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.7.2.1.1 Transport channel parameters for DCH

6.10.3.4.6.7.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.6.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.7.2.1.2.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.10.3.4.6.7.2.2 Physical channel parameters

6.10.3.4.6.7.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.8 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.8.1 Uplink

6.10.3.4.6.8.1.1 Transport channel parameters

6.10.3.4.6.8.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB |
|--------------|----------------------|------|------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |

| | | | | |
|----------|---|--------------------------------|---------|--|
| | Max data rate, bps | 384 000 | 384 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 4x340 | |
| | | TF4, bits | 8x340 | |
| | | TF5, bits | 12x340 | |
| | TTI, ms | 10 | | |
| | Coding type | TC | | |
| CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 12 828 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 12 828 | | |
| | RM attribute | 110-180 | | |

6.10.3.4.6.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.8.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (384 kbps RAB + 384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

6.10.3.4.6.8.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 1 codes x 3 time slot |
| | Max. Number of data bits/radio frame | 6480 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.6.8.2 Downlink

6.10.3.4.6.8.2.1 Transport channel parameters

6.10.3.4.6.8.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.8.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.8.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.8.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.8.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.8.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.8.2.2 Physical channel parameters

6.10.3.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.9 Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.9.1 Uplink

See clause 6.10.3.4.1.57.1.

6.10.3.4.6.9.2 Downlink

6.10.3.4.6.9.2.1 Transport channel parameters

6.10.3.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.9.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.9.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.9.2.2 Physical channel parameters

6.10.3.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.10 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.10.1 Uplink

6.10.3.4.6.10.1.1 Transport channel parameters

6.10.3.4.6.10.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB | |
|--------------|---|-----------|-------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 128000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8076 | |
| | Uplink: Max number of bits/radio frame before rate matching | 4038 | |
| RM attribute | 125-165 | | |

6.10.3.4.6.10.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.6.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.10.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 40 |
| TFCS | (128 kbps RAB, 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.10.3.4.6.10.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 4272 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.10.3.4.6.10.2 Downlink

6.10.3.4.6.10.2.1 Transport channel parameters

6.10.3.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.10.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB |
|---|-------------------------------|---------------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 640 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | AMD PDU header, bit | 16 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 656 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 10 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | |

6.10.3.4.6.10.2.1.1.2 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.10.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.10.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.10.2.2 Physical channel parameters

6.10.3.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.11 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.11.1 Uplink

6.10.3.4.6.11.1.1 Transport channel parameters

6.10.3.4.6.11.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.6.11.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.3.4.6.10.1.1.1.

6.10.3.4.6.11.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.6.11.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.11.1.1.5 TFCS

| TFCS size | 120 |
|-----------|---|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0), (TF2,TF1,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0), (TF2,TF1,TF1,TF2,TF0,TF0), (TF0,TF0,TF0,TF3,TF0,TF0), (TF1,TF0,TF0,TF3,TF0,TF0), (TF2,TF1,TF1,TF3,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0), (TF2,TF1,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0), (TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0), (TF0,TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF0,TF2,TF0), (TF0,TF0,TF0,TF1,TF2,TF0), (TF1,TF0,TF0,TF1,TF2,TF0), (TF2,TF1,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0), (TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0), (TF0,TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF0,TF3,TF0), (TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0), (TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0), (TF0,TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF0,TF4,TF0), (TF0,TF0,TF0,TF1,TF4,TF0), (TF1,TF0,TF0,TF1,TF4,TF0), (TF2,TF1,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0), (TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0), (TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1), (TF2,TF1,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1), (TF2,TF1,TF1,TF2,TF0,TF1), (TF0,TF0,TF0,TF3,TF0,TF1), (TF1,TF0,TF0,TF3,TF0,TF1), (TF2,TF1,TF1,TF3,TF0,TF1), (TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1), (TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1), (TF0,TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF0,TF2,TF1), (TF0,TF0,TF0,TF1,TF2,TF1), (TF1,TF0,TF0,TF1,TF2,TF1), (TF2,TF1,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1), (TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1), (TF0,TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF0,TF3,TF1), (TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1), (TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1), (TF0,TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF0,TF4,TF1), (TF0,TF0,TF0,TF1,TF4,TF1), (TF1,TF0,TF0,TF1,TF4,TF1), (TF2,TF1,TF1,TF1,TF4,TF1), (TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1), (TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

6.10.3.4.6.11.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF2 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 4272 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.44 |

6.10.3.4.6.11.2 Downlink

6.10.3.4.6.11.2.1 Transport channel parameters

6.10.3.4.6.11.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.11.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.3.4.6.10.2.1.1.1.

6.10.3.4.6.11.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.11.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.11.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.6.11.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.11.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.6.11.2.2 Physical channel parameters

6.10.3.4.6.11.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.11.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.7 Combinations on HS-PDSCH and E-PUCH

6.10.3.4.7.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.10.3.4.7.1.1 Uplink

6.10.3.4.7.1.1.1 Transport channel parameters

6.10.3.4.7.1.1.1.1 Transport channel parameters for E-DCH

6.10.3.4.7.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | Depends on UE category and TTI |
| | AMD PDU header, bit | 16 |
| MAC | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-e/es header fixed part, bit | 18 |
| Layer 1 | TrCH type | E-DCH |
| | TTI | 10ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.10.3.4.7.1.1.1.2 Transport channel parameters for DCH

6.10.3.4.7.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.7.1.1.2 Physical channel parameters

6.10.3.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DCH Physical Layer category 1:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 1.7360Mbps |

UE E-DCH Physical Layer category 2:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 3.4752Mbps |

UE E-DCH Physical Layer category 3:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 5.2416Mbps |

UE E-DCH Physical Layer category 4:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 6.9536Mbps |

UE E-DCH Physical Layer category 5:

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 10.4864Mbps |

6.10.3.4.7.1.1.2.2 Physical channel parameters for DPCH

See clause 6.10.3.4.1.2.1.2

6.10.3.4.7.1.2 Downlink

See clause 6.10.3.4.6.1.2.

6.10.3.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.10.3.4.7.3.1 Uplink

See clause 6.10.3.4.7.1.1.

6.10.3.4.7.3.1.2 Physical channel parameters

6.10.3.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.10.3.4.7.3.2 Downlink

6.10.3.4.7.3.2.1 Transport channel parameters

6.10.3.4.7.3.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.7.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.7.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------------|---|--------------------------------|-------|-------|-------|
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category (NOTE) | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| | MAC-d PDU size, bit | 148 | | | |
| | MAC-hs header fixed part, bit | 21 | | | |
| Layer 1 | TrCH type | HS-DSCH | | | |
| | TTI | 10 ms | | | |
| | Coding type | TC | | | |
| | CRC, bit | 24 | | | |
| NOTE: | The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | | | |

6.10.3.4.7.3.2.2 Physical channel parameters

6.10.3.4.7.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.7.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.7.4.1 Uplink

6.10.3.4.7.4.1.1 Transport channel parameters

6.10.3.4.7.4.1.1.1 Transport channel parameters for E-DCH

6.10.3.4.7.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.7.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.7.4.1.1.4 TFCS

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.7.4.1.2 Physical channel parameters

6.10.3.4.7.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.10.3.4.7.4.1.2.2 Physical channel parameters on DCH

See clause 6.10.3.4.1.4.1.2.

6.10.3.4.7.4.2 Downlink

See clause 6.10.3.4.6.3.2.

6.10.3.4.7.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.10.3.4.7.5.1 Uplink

6.10.3.4.7.5.1.1 Transport channel parameters

6.10.3.4.7.5.1.1.1 Transport channel parameters for E-DCH

MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.

6.10.3.4.7.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.3.4.7.2.1.1.1.2.

6.10.3.4.7.5.1.2 Physical channel parameters

6.10.3.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.10.3.4.7.5.2 Downlink

See clause 6.10.3.4.6.3.2.

6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows.

6.11.1.1 Transport channel parameters for the Uplink RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 8 200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | | 40 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 080 |
| | Uplink: Max number of bits/radio frame before rate matching | | 270 |
| | RM attribute | | 135 to 175 |

6.11.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.1.3 Transport channel parameters for the Downlink RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 8 200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |

| | | |
|--|---|------------|
| | TTI, ms | 40 |
| | Coding type | CC 1/3 |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 080 |
| | RM attribute | 135 to 175 |

6.11.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.1a Streaming / unknown / DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.1a.1 Uplink

6.11.1a.1.1 Transport channel parameters

6.11.1a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

6.11.1a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.1a.1.1.3 TFCS

See clause 6.10.2.4.1.23a.1.1.3

6.11.1a.1.2 Physical channel parameters

See clause 6.10.2.4.1.23a.1.2

6.11.1a.2 Downlink

6.11.1a.2.1 Transport channel parameters

6.11.1a.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 648 | |
| | Max data rate, bps | 64 800 | |
| | UM PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 076 | |
| RM attribute | 125 to 165 | | |

6.11.1a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.11.1a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.1a.2.1.4 TFCS

See clause 6.10.2.4.1.58.2.1.4

6.11.1a.2.2 Physical channel parameters

See clause 6.10.2.4.1.58.2.2

6.11.1b Streaming / unknown / DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.1b.1 Uplink

6.11.1b.1.1 Transport channel parameters

6.11.1b.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.1b.1.1.2 TFCS

See clause 6.10.2.4.1.2.1.1.3

6.11.1b.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2

6.11.1b.2 Downlink

6.11.1b.2.1 Transport channel parameters

6.11.1b.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See Clause 6.10.2.4.xx.2.1.1

6.11.1b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.1b.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, DCCH)= (TF0,TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) |

6.11.1b.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| Number of data bits/frame | | 2 100 | |

6.11.1c 8kbps RB for MBSFN MTCH (3.84 Mcps TDD)

6.11.1c.1 Transport channel parameters

6.11.1c.1.1 Transport channel parameters for 8 kbps PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 8200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 345 |
| | TFS | TF0, bits | 0x345 |
| | | TF1, bits | 1x345 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1095 |
| | Max number of bits/radio frame before rate matching | | 274 |
| | RM attribute | | 128 |

6.11.1c.1.2 TFCS

| | |
|-----------|----------------------|
| TFCS size | 2 |
| TFCS | 8 kbps RAB =TF0, TF1 |

6.11.1c.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 248 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.84 |

6.11.1d 8kbps RB for MBSFN MTCH (7.68 Mcps TDD)

6.11.1d.1 Transport channel parameters

6.11.1d.1.1 Transport channel parameters for 8 kbps PS RAB

See clause 6.11.1c.1.1

6.11.1d.1.2 TFCS

| | |
|-----------|----------------------|
| TFCS size | 2 |
| TFCS | 8 kbps RAB =TF0, TF1 |

6.11.1d.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 248 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.84 |

6.11.1e 8kbps RB for MBSFN MTCH (3.84 Mcps TDD IMB)

6.11.1e.1 Transport channel parameters

6.11.1e.1.1 Transport channel parameters for 8kbps PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 8200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 344 |
| | TFS | TF0, bits | 0x344 |
| | | TF1, bits | 1x344 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1092 |
| | Max number of bits/radio frame before rate matching | | 273 |
| | RM attribute | | 128 |

6.11.1e.1.2 TFCS

| | |
|-----------|----------------------|
| TFCS size | 2 |
| TFCS | 8 kbps RAB =TF0, TF1 |

6.11.1e.2 Physical channel parameters

| | | |
|----------------|---------------------------|----------|
| S-CCPCH Type 2 | DTX position | Flexible |
| | Spreading factor | 16 |
| | Number of codes | 1 |
| | Number of data bits/slot | 272 |
| | Number of data bits/frame | 816 |
| | Modulation | QPSK |
| | Slot Format # | Format 3 |

6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

6.11.2.1 Transport channel parameters for the Uplink RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 1 336 |
| | Max data rate, bps | | 66 800 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 1 344 |
| | TFS | TF0, bits | 0x1344 |
| | | TF1, bits | 1x1344 |
| | TTI, ms | | 20 |

| | | |
|--|---|------------|
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 4 092 |
| | Uplink: Max number of bits/radio frame before rate matching | 2 046 |
| | RM attribute | 130 to 170 |

6.11.2.2 Transport channel parameters for the Downlink RAB

| | | | |
|--------------|---|------------|--------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 1 336 | |
| | Max data rate, bps | 66 800 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 1 344 | |
| | TFS | TF0, bits | 0x1344 |
| | | TF1, bits | 1x1344 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 092 | |
| | RM attribute | 130 to 170 | |

6.11.2a 64kbps RB for MBSFN MTCH (3.84 Mcps TDD)

6.11.2a.1 Transport channel parameters

6.11.2a.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | MBMS | |
| RLC | Logical channel type | MTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 1336 | |
| | Max data rate, bps | 66800 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 9 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 1353 | |
| | TFS | TF0, bits | 0x1353 |
| | | TF1, bits | 1x1353 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4119 | |
| | Max number of bits/radio frame before rate matching | 2060 | |
| | RM attribute | 128 | |

6.11.2a.1.2 TFCS

| | |
|-----------|------------------------|
| TFCS size | 2 |
| TFCS | 64 kbps RAB = TF0, TF1 |

6.11.2a.2 Physical channel parameters

| | | |
|---------|----------------------|------------------------------|
| S-CCPCH | Midamble | 320 chips (burst type 4) |
| | Codes and time slots | SF16 x 8 codes x 1 time slot |
| | Modulation | QPSK |

| | | |
|--|--------------------------------------|-----------|
| | Max. Number of data bits/radio frame | 2096 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 1 |

6.11.2b 64kbps RB for MBSFN MTCH (7.68 Mcps TDD)

6.11.2b.1 Transport channel parameters

6.11.2b.1.1 Transport channel parameters for 64 kbps PS RAB

See clause 6.11.2a.1.1

6.11.2b.1.2 TFCS

| | |
|-----------|-----------------------|
| TFCS size | 2 |
| TFCS | 64 kbps RAB =TF0, TF1 |

6.11.2b.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 2096 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 1 |

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows.

6.11.3.1 Transport channel parameters for the Uplink RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 128 | |
| | Max data rate, bps | 6 400 | |
| | UMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 144 | |
| | TFS | 0x144 | 0x144 |
| | | 1x144 | 1x144 |
| | TTI, ms | 20 | |
| | Coding type | CC 1/3 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 504 | |
| | Uplink: Max number of bits/radio frame before rate matching | 252 | |
| | RM attribute | 135 to 175 | |

6.11.3.2 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.3.3 Transport channel parameters for the Downlink RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 128 | |
| | Max data rate, bps | 6 400 | |
| | UMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 144 | |
| | TFS | 0x144 | 0x144 |
| | | 1x144 | 1x144 |
| | TTI, ms | 20 | |
| | Coding type | CC 1/3 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 504 | |
| | RM attribute | 135 to 175 | |

6.11.3.4 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

6.11.4.1 Transport channel parameters for the Uplink RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 1 328 | |
| | Max data rate, bps | 66 400 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 1 344 | |
| | TFS | TF0, bits | 0x1344 |
| | | TF1, bits | 1x1344 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 092 | |
| | Uplink: Max number of bits/radio frame before rate matching | 2 046 | |
| RM attribute | 130 to 170 | | |

6.11.4.2 Transport channel parameters for the Downlink RAB

| | | |
|--------------|----------------------|------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 1 328 |
| | Max data rate, bps | 66 400 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |

| | | | |
|---------|---|------------|--------|
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 1 344 | |
| | TFS | TF0, bits | 0x1344 |
| | | TF1, bits | 1x1344 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 092 | |
| | RM attribute | 130 to 170 | |

6.11.4a Reference Radio Bearer configurations used in MAC-hs testing

6.11.4a.1 5 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-hs test case 7.1.5.2 in 3GPP TS 34.123-1 [1].

6.11.4a.1.1 Uplink

6.11.4a.1.1.1 Uplink Transport channel parameters for DCH

6.11.4a.1.1.1.1 Transport channel parameters for 5 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 | RB7 | RB8 | RB9 | |
|--------------|---|--------------------------------|-------|-------|-------|-------|--|
| RLC | Logical channel type | DTCH | DTCH | DTCH | DTCH | DTCH | |
| | RLC mode | UM | UM | AM | AM | AM | |
| | Payload sizes, bit | 328 | 328 | 320 | 320 | 320 | |
| | Max data rate, bps | 8 200 | 8 200 | 8 000 | 8 000 | 8 000 | |
| | UMD/AMD PDU header, bit | 8 | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 | 4 | |
| | MAC multiplexing | 5 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | DCH | | | | | |
| | TB sizes, bit | 340 | | | | | |
| | TFS | TF0, bits | 0x340 | | | | |
| | | TF1, bits | 1x340 | | | | |
| | TTI, ms | 40 | | | | | |
| | Coding type | TC | | | | | |
| | CRC, bit | 16 | | | | | |
| | Max number of bits/TTI after channel coding | 1 080 | | | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | | | | | |
| | RM attribute | 135 to 175 | | | | | |

6.11.4a.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4a.1.1.1.3 Uplink TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (5x8 kbps PS RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.4a.1.1.2 Uplink physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.11.4a.1.2 Downlink

6.11.4a.1.2.1 Transport channel parameters for HS-DSCH

6.11.4a.1.2.1.1 MAC-d flow #1 parameters for 2 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 |
|--------------|----------------------|--------------------------------|------------------------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | UM | UM |
| | Payload sizes, bit | 328 | 328 |
| | Max data rate, bps | depends on UE category | depends on UE category |
| | UMD PDU header, bit | 8 | 8 |
| MAC-d | MAC-d header, bit | 4 | 4 |
| | MAC multiplexing | 2 logical channel multiplexing | |
| | MAC-d PDU size, bit | 340 | |

6.11.4a.1.2.1.2 MAC-d flow #2 parameters for 2 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB7 | RB8 |
|--------------|----------------------|--------------------------------|------------------------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |
| | Max data rate, bps | depends on UE category | depends on UE category |
| | AMD PDU header, bit | 16 | 16 |
| MAC-d | MAC-d header, bit | 4 | 4 |
| | MAC multiplexing | 2 logical channel multiplexing | |
| | MAC-d PDU size, bit | 340 | |

6.11.4a.1.2.1.3 MAC-d flow#3 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB9 |
|--------------|----------------------|------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | depends on UE category |
| | AMD PDU header, bit | 16 |
| MAC-d | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |

6.11.4a.1.2.1.4 MAC-hs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|---------|-------------------------------|---------|
| MAC-hs | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.4a.1.2.2 Downlink Transport channel parameters for DCH

6.11.4a.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4a.1.2.2.2 Downlink TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.11.4a.1.2.3 Downlink physical channel parameters

6.11.4a.1.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4a.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | Depending on UE category |

6.11.4b Interactive or background / UL: 0 kbps DL: 0 kbps PS RAB

This reference radio bearer configuration is used by the RRC test case 8.4.1.43 in 3GPP TS 34.123-1 [1].

6.11.4b.1 Uplink

6.11.4b.1.1 Uplink Transport channel parameters for DCH

6.11.4b.1.1.1 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | TTI, ms | 20 | |
| | Coding type | CC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 0 | |
| | Uplink: Max number of bits/radio frame before rate matching | 0 | |
| | RM attribute | 130 to 170 | |

6.11.4b.1.1.2 Uplink TFCS

| | |
|-----------|---|
| TFCS size | 2 |
| TFCS | (0 kbps RAB, DCCH)= (TF0, TF0), (TF0, TF1) |

6.11.4b.1.2 Uplink physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.11.4b.2 Downlink

6.11.4b.2.1 Downlink Transport channel parameters for DCH

6.11.4b.2.1.1 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |

| | | |
|---------|---|------------|
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 0 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 336 |
| | TFS TF0, bits | 0x336 |
| | TTI, ms | 20 |
| | Coding type | CC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 0 |
| | RM attribute | 130 to 170 |

6.11.4b.2.1.1.2 Downlink TFCS

| | |
|-----------|---|
| TFCS size | 2 |
| TFCS | (0 kbps RAB, DCCH)= (TF0, TF0), (TF0, TF1) |

6.11.4b.2.2 Downlink physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 128 |
| | DPCCH | Number of TFCI bits/slot | 2 |
| | | Number of TPC bits/slot | 2 |
| | | Number of Pilot bits/slot | 4 |
| | DPDCH | Number of data bits/slot | 34 |
| | | Number of data bits/frame | 510 |

6.11.4c Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.4c.1 Uplink

6.11.4c.1.1 Transport channel parameters

6.11.4c.1.1.1 Transport channel parameters for E-DCH

6.11.4c.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 2 | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 2 |
|---|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | UM | | |
| | Payload sizes, bit | 328 | 328 | Flexible up to 12000 |
| | Max data rate, bps | Depends on UE category and TTI | | |
| | UMD PDU header, bit | 8 | | |
| MAC | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 | 336 | Flexible |
| | MAC type | MAC-e/es | MAC-i/is | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 | 24 |
| Layer 1 | TrCH type | E-DCH | | |
| | TTI | 10ms (alt. 2ms) (NOTE 1) | | |
| | Coding type | TC | | |
| | CRC, bit | 24 | | |
| NOTE 1: The support of 2ms TTI depends on the UE category | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | | |

6.11.4c.1.1.1.2 Transport channel parameters for DCH

6.11.4c.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4c.1.2 Physical channel parameters

6.11.4c.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.11.4c.1.2.2 Physical channel parameters for DPCH

See clause 6.10.2.4.1.2.1.2

6.11.4c.2 Downlink

6.11.4c.2.1 Transport channel parameters

6.11.4c.2.1.1 Transport channel parameters for HS-DSCH

6.11.4c.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |

| | | |
|---|-------------------------------|---------------------------------|
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | |

6.11.4c.2.1.1.2 Transport channel parameters for DCH

6.11.4c.2.1.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4c.2.1.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.4c.2.2 Physical channel parameters

6.11.4c.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4c.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4d Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + DL: 3.4 kbps SRBs for DCCH on E-DCH and DCH

6.11.4d.1 Uplink

6.11.4d.1.1 Transport channel parameters

6.11.4d.1.1.1 Transport channel parameters for E-DCH

6.11.4d.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

6.11.4d.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1.

6.11.4d.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1.

6.11.4d.1.2 Physical channel parameters

6.11.4d.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.11.4d.2 Downlink

6.11.4d.2.1 Transport channel parameters

6.11.4d.2.1.1 Transport channel parameters for HS-DSCH

6.11.4d.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1.

6.11.4d.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1.

6.11.4d.2.1.2 Transport channel parameters for DCH

6.11.4d.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4d.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.4d.2.2 Physical channel parameters

6.11.4d.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4d.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4e Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.4e.1 Uplink

6.11.4e.1.1 Transport channel parameters

6.11.4e.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| | | |
|--------------|----------------------|--------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | 65 800 |
| | UMD PDU header, bit | 8 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |

| | | | |
|---|---|------------|-------|
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 4 236 |
| Uplink: Max number of bits/radio frame before rate matching | | 2 118 | |
| RM attribute | | 130 to 170 | |

6.11.4e.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4e.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.11.4e.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.96 |

6.11.4e.2 Downlink

6.11.4e.2.1 Transport channel parameters

6.11.4e.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| | | | |
|--------------|---|------------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 65 800 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 4 236 |
| RM attribute | | 130 to 170 | |

6.11.4e.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4e.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.11.4e.2.2 Physical channel parameters

| | | | |
|---------------------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| Number of data bits/frame | | 2 100 | |

6.11.4f Reference Radio Bearer configurations used in MAC-ehs testing

6.11.4f.1 3 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

6.11.4f.1.1 Uplink

6.11.4f.1.1.1 Uplink Transport channel parameters for DCH

6.11.4f.1.1.1.1 Transport channel parameters for 3 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 | RB7 |
|--------------|---|--------------------------------|-------|-------|
| RLC | Logical channel type | DTCH | DTCH | DTCH |
| | RLC mode | UM | UM | UM |
| | Payload sizes, bit | 328 | 328 | 320 |
| | Max data rate, bps | 8 200 | 8 200 | 8 000 |
| | UMD/AMD PDU header, bit | 8 | 8 | 8 |
| MAC | MAC header, bit | 4 | 4 | 4 |
| | MAC multiplexing | 3 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | | |
| | RM attribute | 135 to 175 | | |

6.11.4f.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4f.1.1.1.3 Uplink TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (5x8 kbps PS RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.4f.1.1.2 Uplink physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.11.4f.1.2 Downlink

6.11.4f.1.2.1 Transport channel parameters for HS-DSCH

6.11.4f.1.2.1.1 parameters for 3 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 | RB7 |
|--------------|----------------------|------------------------|------|------|
| RLC | Logical channel type | DTCH | DTCH | DTCH |
| | RLC mode | UM | UM | UM |
| | Payload sizes, bit | 328 | 328 | 328 |
| | Max data rate, bps | depends on UE category | | |
| | UMD PDU header, bit | 8 | 8 | 8 |
| MAC-d | MAC-d header, bit | None | | |
| | MAC multiplexing | None | | |
| | MAC-d PDU size, bit | 336 | | |

6.11.4f.1.2.1.2 MAC-ehs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|---------|--------------------------------|---------|
| MAC-ehs | MAC-ehs header fixed part, bit | FFS |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.4f.1.2.2 Downlink Transport channel parameters for DCH

6.11.4f.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4f.1.2.2.2 Downlink TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.11.4f.1.2.3 Downlink physical channel parameters

6.11.4f.1.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4f.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | Depending on UE category |

6.11.4f.2 1 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

6.11.4f.2.1 Uplink

6.11.4f.2.1.1 Uplink Transport channel parameters for DCH

6.11.4f.2.1.1.1 Transport channel parameters for 1 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | |
|--------------|---|------------|-------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 328 | |
| | Max data rate, bps | 8 200 | |
| | UMD/AMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 080 | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | |
| | RM attribute | 135 to 175 | |

6.11.4f.2.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4f.2.1.1.3 Uplink TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps PS RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.4f.2.1.2 Uplink physical channel parameters

| | | |
|-------------|---|-----|
| DPCH Uplink | Min spreading factor | 64 |
| | Max number of DPDCH data bits/radio frame | 600 |
| | Puncturing Limit | 1.0 |

6.11.4f.2.2 Downlink

6.11.4f.2.2.1 Transport channel parameters for HS-DSCH

6.11.4f.2.2.1.1 parameters for 1 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB5 |
|--------------|--------------------------------|------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | depends on UE category |
| | UMD PDU header, bit | 8 |
| MAC-d | MAC-d header, bit | None |
| | MAC multiplexing | None |
| | MAC-d PDU size, bit | 336 |
| MAC-ehs | MAC-ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.4f.2.2.2 Downlink Transport channel parameters for DCH

6.11.4f.2.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4f.2.2.2.2 Downlink TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.11.4f.2.2.3 Downlink physical channel parameters

6.11.4f.2.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4f.2.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | Depending on UE category |

6.11.4g Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.4g.1 Uplink

6.11.4g.1.1 Transport channel parameters

6.11.4g.1.1.1 Transport channel parameters for E-DCH

6.11.4g.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | Depends on UE category and TTI |
| | UMD PDU header, bit | 8 |
| MAC | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-e/es header fixed part, bit | 18 |
| Layer 1 | TrCH type | E-DCH |
| | TTI | 10ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.4g.1.1.1.2 Transport channel parameters for DCH

6.11.4g.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.4g.1.2 Physical channel parameters

6.11.4g.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1

6.11.4g.1.2.2 Physical channel parameters for DPCH

See clause 6.10.3.4.1.2.1.2

6.11.4g.2 Downlink

6.11.4g.2.1 Transport channel parameters

6.11.4g.2.1.1 Transport channel parameters for HS-DSCH

6.11.4g.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|--------------|-------------------------------|---------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |

| | | |
|---|-------------|-------|
| | TTI | 10 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | |

6.11.4g.2.1.1.2 Transport channel parameters for DCH

6.11.4g.2.1.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.4g.2.1.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.4g.2.2 Physical channel parameters

6.11.4g.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.11.4g.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.11.4h Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + DL: 3.4 kbps SRBs for DCCH on E-DCH and DCH for 3.84Mcps TDD

6.11.4h.1 Uplink

6.11.4h.1.1 Transport channel parameters

6.11.4h.1.1.1 Transport channel parameters for E-DCH

6.11.4h.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.3.4.7.2.1.1.1.2

6.11.4h.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4g.1.1.1.1.

6.11.4h.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4g.1.1.1.1.

6.11.4h.1.2 Physical channel parameters

6.11.4h.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.11.4h.2 Downlink

6.11.4h.2.1 Transport channel parameters

6.11.4h.2.1.1 Transport channel parameters for HS-DSCH

6.11.4h.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4g.2.1.1.1.

6.11.4h.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4g.2.1.1.1.

6.11.4h.2.1.2 Transport channel parameters for DCH

6.11.4h.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.4h.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.4h.2.2 Physical channel parameters

6.11.4h.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.11.4h.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.11.4i Reference Radio Bearer configurations used in CPC testing

6.11.4i.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / UM PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.4i.1.1 Uplink

6.11.4i.1.1.1 Transport channel parameters

6.11.4i.1.1.1.1 Transport channel parameters for E-DCH

6.11.4i.1.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1.

6.11.4i.1.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

6.11. 4i.1.1.2 Physical channel parameters

6.11. 4i.1.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.11. 4i.1.2 Downlink

6.11. 4i.1.2.1 Transport channel parameters

6.11. 4i.1.2.1.1 Transport channel parameters for HS-DSCH

6.11. 4i.1.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1

6.11. 4i.1.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.11. 4i.1.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.11. 4i.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4j Reference Radio Bearer configurations used in Improved L2 testing

6.11.4j.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / UM PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.4j.1.1 Uplink

See clause 6.11.4e.1

6.11.4j.1.2 Downlink

6.11. 4j.1.2.1 Transport channel parameters

6.11. 4j.1.2.1.1 Transport channel parameters for HS-DSCH

6.11. 4j.1.2.1.1.1 MAC-d flow parameters for DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Flexible RLC + MAC-ehs (Rel-7 and later releases) |
|---|-----------------------------------|--|
| Higher Layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | Flexible up to 12000 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | Flexible |
| | MAC-hs Type | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| | Applicable modulation schemes | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | Yes |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | |

6.11.4j.1.2.1.1.2 Transport channel parameters for DCH

6.11.4j.1.2.1.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4j.1.2.1.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.4j.1.2.2 Physical channel parameters

6.11.4j.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4j.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4j.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-ehs SRBs for DCCH on E-DCH and HS-DSCH

6.11.4j.2.1 Uplink

See clause 6.10.2.4.6.1.1.

- 6.11.4j.2.1.2 Physical channel parameters
- 6.11.4j.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

- 6.11.4j.2.2 Downlink
- 6.11.4j.2.2.1 Transport channel parameters
- 6.11.4j.2.2.1.1 Transport channel parameters for HS-DSCH

- 6.11.4j.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

- 6.11.4j.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------------|--------------------------------|---------------------------------|-------|-------|-------|
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | Flexible up to 12000 | | | |
| | Max data rate, bps | Depends on UE category (NOTE 1) | | | |
| MAC | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | N/A | | | |
| | MAC-d PDU size, bit | Flexible | | | |
| | MAC-hs Type | MAC-ehs | | | |
| Layer 1 | MAC-ehs header fixed part, bit | 24 | | | |
| | TrCH type | HS-DSCH | | | |
| | TTI, ms | 2 ms | | | |
| | Coding type | TC | | | |
| | CRC, bit | 24 | | | |
| | Applicable modulation schemes | QPSK, 16QAM, 64QAM | | | |
| | Applicable with MIMO | Yes | | | |

- 6.11.4j.2.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

- 6.11.4j.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k Reference Radio Bearer configurations used in Improved L2 UL testing

6.11.4k.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.4k.1.1 Uplink

6.11.4k.1.1.1 Transport channel parameters

6.11.4k.1.1.1.1 Transport channel parameters for E-DCH

6.11.4k.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.1.1.1.1.2 Transport channel parameters for DCH

6.11.4k.1.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.11.4k.1.1.2 Physical channel parameters

6.11.4k.1.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.11.4k.1.1.2.2 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.1.2

6.11.4k.1.2 Downlink

6.11.4k.1.2.1 Transport channel parameters

6.11.4k.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.1.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RAB |
|--------------|--------------------------------|---------------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | Flexible up to 12000 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | Flexible |
| | MAC-ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).

- 6.11.4k.1.2.1.2 Transport channel parameters for DCH
- 6.11.4k.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.
- 6.11.4k.1.2.2 Physical channel parameters
- 6.11.4k.1.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.5.1.2.
- 6.11.4k.1.2.2.2 Physical channel parameters on HS-PDSCH
- See clause 6.10.2.4.5.1.2.2.2.
- 6.11.4k.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH**
- 6.11.4k.2.1 Uplink
- 6.11.4k.2.1.1 Transport channel parameters
- 6.11.4k.2.1.1.1 Transport channel parameters for E-DCH
- 6.11.4k.2.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH
- See clause 6.10.2.4.6.2.1.1.1.2, alt 2
- 6.11.4k.2.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.4c.1.1.1.1, alt 3
- 6.11.4k.2.1.2 Physical channel parameters
- 6.11.4k.2.1.2.1 Physical channel parameters on E-DPDCH
- See clause 6.10.2.4.6.1.1.2.1
- 6.11.4k.2.2 Downlink
- 6.11.4k.2.2.1 Transport channel parameters
- 6.11.4k.2.2.1.1 Transport channel parameters for HS-DSCH
- 6.11.4k.2.2.1.1.1 MAC-d flow#0 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.4k.1.2.1.1.1
- 6.11.4k.2.2.1.1.2 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH
- See clause 6.10.2.4.6.3.2.1.1.2, alt 2.
- 6.11.4k.2.2.2 Physical channel parameters
- 6.11.4k.2.2.2.1 Physical channel parameters on DPCH
- The physical channel configuration shall use F-DPCH.

6.11.4k.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-ehs SRBs for DCCH on E-DCH and HS-DSCH

6.11.4k.3.1 Uplink

6.11.4k.3.1.1 Transport channel parameters

6.11.4k.3.1.1.1 Transport channel parameters for E-DCH

6.11.4k.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2.

6.11.4k.3.2.1.2 Physical channel parameters

6.11.4k.3.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.11.4k.3.2.2 Downlink

6.11.4k.3.2.2.1 Transport channel parameters

6.11.4k.3.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.3.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1, alt 3

6.11.4k.3.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2, alt 2.

6.11.4k.3.2.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.11.4k.3.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

- 6.11.4k.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + 3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 6.11.4k.4.1 Uplink
- 6.11.4k.4.1.1 Transport channel parameters
- 6.11.4k.4.1.1.1 Transport channel parameters for E-DCH
- 6.11.4k.4.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH
- See clause 6.10.2.4.6.2.1.1.1.2, alt 2.
- 6.11.4k.4.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.4c.1.1.1.1, alt 3.
- 6.11.4k.4.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.4c.1.1.1.1, alt 3.
- 6.11.4k.4.1.1.1.4 MAC-d flow#4 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.4c.1.1.1.1, alt 3.
- 6.11.4k.4.1.2 Physical channel parameters
- 6.11.4k.4.1.2.1 Physical channel parameters on E-DPDCH
- See clause 6.10.2.4.6.1.1.2.1.
- 6.11.4k.4.2 Downlink
- 6.11.4k.4.2.1 Transport channel parameters
- 6.11.4k.4.2.1.1 Transport channel parameters for HS-DSCH
- 6.11.4k.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.4k.1.2.1.1.1.
- 6.11.4k.4.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.4k.1.2.1.1.1.
- 6.11.4k.4.2.1.1.2 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.4k.2.1.1.1.
- 6.11.4k.4.2.1.2 Transport channel parameters for DCH
- 6.11.4k.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.

6.11.4k.4.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2

6.11.4k.4.2.2 Physical channel parameters

6.11.4k.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4k.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k.5 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.4k.5.1 Uplink

6.11.4k.5.1.1 Transport channel parameters

6.11.4k.5.1.1.1 Transport channel parameters for E-DCH

6.11.4k.5.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2.

6.11.4k.5.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.5.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.5.1.2 Physical channel parameters

6.11.4k.5.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.11.4k.5.2 Downlink

6.11.4k.5.2.1 Transport channel parameters

6.11.4k.5.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.5.2.1.1.1 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2, alt 2.

6.11.4k.5.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.5.2.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.5.2.2 Physical channel parameters

6.11.4k.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4k.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4l Reference Radio Bearer configurations used in UL packet filtering testing

6.11.4l.1 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.4l.1.1 Uplink

6.11.4l.1.1.1 Transport channel parameters

6.11.4l.1.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| | | | | | |
|--------------|---|--------------------------------|-------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | DTCH | |
| | RLC mode | AM | AM | AM | |
| | Payload sizes, bit | 320 | 320 | 320 | |
| | Max data rate, bps | 64000 | 64000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | 4 | |
| | MAC multiplexing | 3 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 340 | | | |
| | TFS | TF0, bits | 0x340 | | |
| | | TF1, bits | 1x340 | | |
| | | TF2, bits | 2x340 | | |
| | | TF3, bits | 3x340 | | |
| | | TF4, bits | 4x340 | | |
| | TTI, ms | 20 | | | |
| | Coding type | TC | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 4 284 | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 2 142 | | | |
| RM attribute | 130 to 170 | | | | |

6.11.4l.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4l.1.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB+ 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.11.4l.1.1.2 Physical channel parameters

| | | |
|-------------|---|-------|
| DPCH Uplink | Min spreading factor | 16 |
| | Max number of DPDCH data bits/radio frame | 2 400 |
| | Puncturing Limit | 0.92 |

6.11.4l.1.2 Downlink

6.11.4l.1.2.1 Transport channel parameters

6.11.4l.1.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| | | | | | |
|--------------|---|--------------------------------|-------|--------|--|
| Higher layer | RAB/Signalling RB | RAB | RAB | RAB | |
| RLC | Logical channel type | DTCH | DTCH | DTCH | |
| | RLC mode | AM | AM | AM | |
| | Payload sizes, bit | 320 | 320 | 320 | |
| | Max data rate, bps | 64000 | 64000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | 4 | |
| | MAC multiplexing | 3 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 340 | | | |
| | TFS | TF0, bits | 0x340 | | |
| | | TF1, bits | 1x340 | | |
| | | TF2, bits | 2x340 | | |
| | | TF3, bits | 3x340 | | |
| | | TF4, bits | 4x340 | | |
| | TTI, ms | 20 | | | |
| | Coding type | TC | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 4 284 | | | |
| RM attribute | 130 to 170 | | | | |

6.11.4l.1.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4l.1.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.11.4l.1.2.2 Physical channel parameters

| | | | |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position | | Flexible |
| | Spreading factor | | 32 |
| | DPCCH | Number of TFCI bits/slot | 8 |
| | | Number of TPC bits/slot | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2 100 |

6.11.5 Reference Radio Bearer configurations used in Radio Bearer testing for 1.28 Mcps TDD

6.11.5.1 RABs and signalling RBs

See clause 6.10.3.1.

6.11.5.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (Multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 2a) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH (Multiframe).
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75)kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.(20 msTTI)
- 24) Void.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void.
- 37) Void.

- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38g) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void.
- 47) Void.
- 48) Void.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or Background / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / Unknown / UL:16 DL:64 kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 59) Reserved for future use
- 60) Reserved for future use

- 61) Conversational / Unknown / UL:8 DL:8 kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 62) Interactive or background / UL:256 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 63) Streaming / unknown / UL:16 DL:32 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 64) Streaming / unknown / UL:16 DL:128 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 65) Streaming / unknown / UL:32 DL:256 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 66) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 67) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 68) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:16 DL:128 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 69) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:128 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 70) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:16.8 kbps SRBs for CCCH and SHCCH
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 + UL:3.4 DL:3.4 kbps SRBs for DCCH
 + Interactive or background / UL:64 DL:384 kbps / PS RAB
 + UL:16.8 kbps SRBs for CCCH and SHCCH
 + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 + UL:3.4 DL:3.4 kbps SRBs for DCCH
 + Interactive or background / UL:64 DL:2 048 kbps / PS RAB
 + UL:16.8 kbps SRBs for CCCH and SHCCH
 + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

Combinations on SCCPCH

- 1) Stand-alone SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
 + SRB for CCCH
 + SRBs for DCCH
 + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB
 + Interactive/Background 32 kbps PS RAB
 + SRB for CCCH
 + SRBs for DCCH
 + SRB for BCCH.
- 2b) SRBs for CCCH
 + SRB for DCCH
 + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
 + SRB for PCCH
 + SRB for CCCH
 + SRBs for DCCH
 + SRB for BCCH.
- 3a) SRB for PCCH
 + SRB for CCCH
 + SRB for DCCH
 + SRB for BCCH.
- 4) RB for CTCH
 + SRB for CCCH
 + SRB for BCCH.

Combinations on PRACH

- 1) SRB for CCCH
 + SRBs for DCCH.
- 2) Interactive/Background 12.8 kbps PS RAB
 + SRB for CCCH
 + SRBs for DCCH.
- 3) Interactive/Background 12.8 kbps PS RAB
 + Interactive/Background 12.8 kbps PS RAB
 + SRB for CCCH
 + SRBs for DCCH.

Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 1a) Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5)
- 2) Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2a) Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)
- 3) Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3a) Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)
- 4) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB+UL:3.4 DL:3.4 kbps SRBs for DCCH
- 10) Conversational/Speech/UL:12.2 DL:12.2kbps/CS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 11) Streaming/ UL:32 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 12) Streaming/ UL:16 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 13) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + interactive or Background/ UL:384 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 14) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:16 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 15) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:32 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 16) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 17) Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

Combinations on HS-PDSCH and E-PUCH

- 1) Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

- 2) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 3) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 4) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 7) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 8) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 9) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 10) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 11) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 12) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 13) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 14) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 15) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 16) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 17) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 18) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 16 kbps / PS RAB + Streaming or interactive or

background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 19) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 20) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 21) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.3 Example of linkage between RABs and services

See clause 6.10.3.3.

6.11.5.4 Typical radio parameter sets

6.11.5.4.1 Combinations on DPCH

6.11.5.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.1.1 Uplink

6.11.5.4.1.1.1.1 Transport channel parameters

6.11.5.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.11.5.4.1.1.1.1.2 TFCS

See clause 6.10.3.4.1.1.1.1.2.

6.11.5.4.1.1.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.1.2 Downlink

6.11.5.4.1.1.2.1 Transport channel parameters

6.11.5.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.1.2.1.2 TFCS

See clause 6.10.3.4.1.1.2.1.2.

6.11.5.4.1.1.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |

| | | |
|--|------------------|----------|
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.11.5.4.1.1a.1 Uplink

6.11.5.4.1.1a.1.1 Transport channel parameters

6.11.5.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.1.1.1.

6.11.5.4.1.1a.1.1.2 TFCS

See clause 6.10.3.4.1.1a.1.1.2.

6.11.5.4.1.1a.1.2 Physical channel parameters

| | | |
|--|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCl code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bit. | | |

6.11.5.4.1.1a.2 Downlink

6.11.5.4.1.1a.2.1 Transport channel parameters

6.11.5.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.2.1.1.

6.11.5.4.1.1a.2.1.2 TFCS

See clause 6.10.3.4.1.1a.2.1.2.

6.11.5.4.1.1a.2.2 Physical channel parameters

| | | |
|--|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCl code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bit. | | |

6.11.5.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.2.1 Uplink

6.11.5.4.1.2.1.1 Transport channel parameters

6.11.5.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.2.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.2.1.2 Physical channel parameters

| | | |
|---|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.2.2 Downlink

6.11.5.4.1.2.2.1 Transport channel parameters

6.11.5.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.2.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.1.2.2.2 Physical channel parameters

| | | |
|---|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 160 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.2a Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe)

6.11.5.4.1.2a.1 Uplink

6.11.5.4.1.2a.1.1 Transport channel parameters

6.11.5.4.1.2a.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH (multiframe)

| | | | | | |
|---|-------------------------|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 20 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| Max number of bits/TTI before rate matching | 516 | | | | |

| | | |
|--|---|------------|
| | Max number of bits/radio frame before rate matching | 516 |
| | RM attribute | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. | | |

6.11.5.4.1.2a.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.2a.1.2 Physical channel parameters

| | | |
|---|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 336 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bit |
| | SS / radio frame | 2x2 bit |
| | Puncturing Limit | 0.64 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.2a.2 Downlink

6.11.5.4.1.2a.2.1 Transport channel parameters

6.11.5.4.1.2a.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH (multiframe)

| | | | | | | |
|---|---|--------------------------------|-------------------------|----------------------|---------------------|--|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority | |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | |
| | RLC mode | UM | AM | AM | AM | |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 | |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 | |
| | MAC multiplexing | 4 logical channel multiplexing | | | | |
| Layer 1 | TrCH type | DCH | | | | |
| | TB sizes, bit | 148 (alt. 0, 148) (note) | | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | | |
| | | TF1, bits | 1x148 | | | |
| | TTI, ms | 20 | | | | |
| | Coding type | CC 1/3 | | | | |
| | CRC, bit | 16 | | | | |
| | Max number of bits/TTI before rate matching | 516 | | | | |
| | Max number of bits/radio frame before rate matching | 516 | | | | |
| | | RM attribute | 155 to 165 | | | |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | | | | |

6.11.5.4.1.2a.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.1.2a.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 336 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |

| | | |
|---|-------------------|------|
| | Puncturing Limit | 0.64 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.5.4.1.3.1 Uplink

6.11.5.4.1.3.1.1 Transport channel parameters

6.11.5.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.1.1.1.

6.11.5.4.1.3.1.1.2 TFCS

See clause 6.10.3.4.1.3.1.1.2.

6.11.5.4.1.3.1.2 Physical channel parameters

| | | |
|---|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 336 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bit |
| | SS / radio frame | 2x2 bit |
| | Puncturing Limit | 0.64 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.3.2 Downlink

6.11.5.4.1.3.2.1 Transport channel parameters

6.11.5.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.2.1.1.

6.11.5.4.1.3.2.1.2 TFCS

See clause 6.10.3.4.1.3.2.1.2.

6.11.5.4.1.3.2.2 Physical channel parameters

| | | |
|---|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 336 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. | | |

6.11.5.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4.1 Uplink

6.11.5.4.1.4.1.1 Transport channel parameters

6.11.5.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4.1.1.3 TFCS

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.1.4.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.4.2 Downlink

6.11.5.4.1.4.2.1 Transport channel parameters

6.11.5.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4.2.1.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.1.4.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.4a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4a.1 Uplink

6.11.5.4.1.4a.1.1 Transport channel parameters

6.11.5.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4a.1.1.3 TFCS

See clause 6.10.3.4.1.4a.1.1.3.

6.11.5.4.1.4a.1.2 Physical channel parameters

| | | |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |

| | | |
|--|--|----------|
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.4a.2 Downlink

6.11.5.4.1.4a.2.1 Transport channel parameters

6.11.5.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4a.2.1.3 TFCS

See clause 6.10.3.4.1.4a.1.2.1.3.

6.11.5.4.1.4a.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5.1 Uplink

6.11.5.4.1.5.1.1 Transport channel parameters

6.11.5.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.1.1.1.

6.11.5.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5.1.1.3 TFCS

See clause 6.10.3.4.1.5.1.1.3.

6.11.5.4.1.5.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.5.2 Downlink

6.11.5.4.1.5.2.1 Transport channel parameters

6.11.5.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.2.1.1.

6.11.5.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5.2.1.3 TFCS

See clause 6.10.3.4.1.5.2.1.3.

6.11.5.4.1.5.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.5a Conversational / speech / UL:10.2 6.7 5.9 4.75 DL:10.2 6.7 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5a.1 Uplink

6.11.5.4.1.5a.1.1 Transport channel parameters

6.11.5.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.1.1.1.

6.11.5.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5a.1.1.3 TFCS

See clause 6.10.3.4.1.5a.1.1.3.

6.11.5.4.1.5a.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.5a.2 Downlink

6.11.5.4.1.5a.2.1 Transport channel parameters

6.11.5.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: 10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.2.1.1.

6.11.5.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5a.2.1.3 TFCS

See clause 6.10.3.4.1.5a.2.1.3.

6.11.5.4.1.5a.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.6.1 Uplink

6.11.5.4.1.6.1.1 Transport channel parameters

6.11.5.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

See clause 6.10.3.4.1.6.1.1.1.

6.11.5.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.6.1.1.3 TFCS

See clause 6.10.3.4.1.6.1.1.3.

6.11.5.4.1.6.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.6.2 Downlink

6.11.5.4.1.6.2.1 Transport channel parameters

6.11.5.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

See clause 6.10.3.4.1.6.2.1.1.

6.11.5.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.6.2.1.3 TFCS

See clause 6.10.3.4.1.6.2.1.3.

6.11.5.4.1.6.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7.1 Uplink

6.11.5.4.1.7.1.1 Transport channel parameters

6.11.5.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.1.1.1.

6.11.5.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7.1.1.3 TFCS

See clause 6.10.3.4.1.7.1.1.3.

6.11.5.4.1.7.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.7.2 Downlink

6.11.5.4.1.7.2.1 Transport channel parameters

6.11.5.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.2.1.1.

6.11.5.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7.2.1.3 TFCS

See clause 6.10.3.4.1.7.2.1.3.

6.11.5.4.1.7.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.7a Conversational / speech / UL:7.4 6.7 5.9 4.75 DL:7.4 6.7 5.9 4.75 / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7a.1 Uplink

6.11.5.4.1.7a.1.1 Transport channel parameters

6.11.5.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.1.1.1.

6.11.5.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7a.1.1.3 TFCS

See clause 6.10.3.4.1.7a.1.1.3.

6.11.5.4.1.7a.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.7a.2 Downlink

6.11.5.4.1.7a.2.1 Transport channel parameters

6.11.5.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.2.1.1.

6.11.5.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7a.2.1.3 TFCS

See clause 6.10.3.4.1.7a.2.1.3.

6.11.5.4.1.7a.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.8.1 Uplink

6.11.5.4.1.8.1.1 Transport channel parameters

6.11.5.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.1.1.1.

6.11.5.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.8.1.1.3 TFCS

See clause 6.10.3.4.1.8.1.1.3.

6.11.5.4.1.8.1.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.68 | |

6.11.5.4.1.8.2 Downlink

6.11.5.4.1.8.2.1 Transport channel parameters

6.11.5.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.2.1.1.

6.11.5.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.8.2.1.3 TFCS

See clause 6.10.3.4.1.8.2.1.3.

6.11.5.4.1.8.2.2 Physical channel parameters

| | | |
|------------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.68 | |

6.11.5.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.9.1 Uplink

6.11.5.4.1.9.1.1 Transport channel parameters

6.11.5.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

See clause 6.10.3.4.1.9.1.1.1.

6.11.5.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.9.1.1.3 TFCS

See clause 6.10.3.4.1.9.1.1.3.

6.11.5.4.1.9.1.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.72 | |

6.11.5.4.1.9.2 Downlink

6.11.5.4.1.9.2.1 Transport channel parameters

6.11.5.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

See clause 6.10.3.4.1.9.2.1.1.

6.11.5.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.9.2.1.3 TFCS

See clause 6.10.3.4.1.9.2.1.3.

6.11.5.4.1.9.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 |

6.11.5.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.10.1 Uplink

6.11.5.4.1.10.1.1 Transport channel parameters

6.11.5.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

See clause 6.10.3.4.1.10.1.1.1.

6.11.5.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.11.5.4.1.10.1.1.3 TFCS

See clause 6.10.3.4.1.10.1.1.3.

6.11.5.4.1.10.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.96 |

6.11.5.4.1.10.2 Downlink

6.11.5.4.1.10.2.1 Transport channel parameters

6.11.5.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

See clause 6.10.3.4.1.10.2.1.1.

6.11.5.4.1.10.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.10.2.1.3 TFCS

See clause 6.10.3.4.1.10.2.1.3.

6.11.5.4.1.10.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.96 |

6.11.5.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.11.1 Uplink

6.11.5.4.1.11.1.1 Transport channel parameters

6.11.5.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

See clause 6.10.3.4.1.11.1.1.1.

6.11.5.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.11.5.4.1.11.1.1.3 TFCS

See clause 6.10.3.4.1.11.1.1.3.

6.11.5.4.1.11.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.11.2 Downlink

6.11.5.4.1.11.2.1 Transport channel parameters

6.11.5.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

See clause 6.10.3.4.1.11.2.1.1.

6.11.5.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.11.2.1.3 TFCS

See clause 6.10.3.4.1.11.2.1.3.

6.11.5.4.1.11.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |

| | | |
|--|------------------|----------|
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.12.1 Uplink

6.11.5.4.1.12.1.1 Transport channel parameters

6.11.5.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.12.1.1.1.

6.11.5.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.12.1.1.3 TFCS

See clause 6.10.3.4.1.12.1.1.3.

6.11.5.4.1.12.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.12.2 Downlink

6.11.5.4.1.12.2.1 Transport channel parameters

6.11.5.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.12.2.1.1.

6.11.5.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.12.2.1.3 TFCS

See clause 6.10.3.4.1.12.2.1.3.

6.11.5.4.1.12.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.13.1 Uplink

6.11.5.4.1.13.1.1 Transport channel parameters

6.11.5.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.13.1.1.3 TFCS

See clause 6.10.3.4.1.13.1.1.3.

6.11.5.4.1.13.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.13.2 Downlink

6.11.5.4.1.13.2.1 Transport channel parameters

6.11.5.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.13.2.1.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.11.5.4.1.13.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.14.1 Uplink

6.11.5.4.1.14.1.1 Transport channel parameters

6.11.5.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

See clause 6.10.3.4.1.14.1.1.1.

6.11.5.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.14.1.1.3 TFCS

See clause 6.10.3.4.1.14.1.1.3.

6.11.5.4.1.14.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.44 |

6.11.5.4.1.14.2 Downlink

6.11.5.4.1.14.2.1 Transport channel parameters

6.11.5.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

See clause 6.10.3.4.1.14.2.1.1.

6.11.5.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.14.2.1.3 TFCS

See clause 6.10.3.4.1.14.2.1.3.

6.11.5.4.1.14.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.44 |

6.11.5.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.15.1 Uplink

6.11.5.4.1.15.1.1 Transport channel parameters

6.11.5.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

See clause 6.10.3.4.1.15.1.1.1.

6.11.5.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.15.1.1.3 TFCS

See clause 6.10.3.4.1.15.1.1.3.

6.11.5.4.1.15.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.15.2 Downlink

6.11.5.4.1.15.2.1 Transport channel parameters

6.11.5.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

See clause 6.10.3.4.1.15.2.1.1.

6.11.5.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.15.2.1.3 TFCS

See clause 6.10.3.4.1.15.2.1.3.

6.11.5.4.1.15.2.2 Physical channel parameters

| | | |
|---------------|---------------------------------------|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 3 code x 2 time slots |
| | Max. Number of data bits / radio rame | 504 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.76 |

6.11.5.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.16.1 Uplink

6.11.5.4.1.16.1.1 Transport channel parameters

6.11.5.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.16.1.1.1.

6.11.5.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.16.1.1.3 TFCS

See clause 6.10.3.4.1.16.1.1.3.

6.11.5.4.1.16.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.16.2 Downlink

6.11.5.4.1.16.2.1 Transport channel parameters

6.11.5.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.16.2.1.1.

6.11.5.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.16.2.1.3 TFCS

See clause 6.10.3.4.1.16.2.1.3.

6.11.5.4.1.16.2.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.56 | |

6.11.5.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.17.1 Uplink

6.11.5.4.1.17.1.1 Transport channel parameters

6.11.5.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.17.1.1.3 TFCS

See clause 6.10.3.4.1.17.1.1.3.

6.11.5.4.1.17.1.2 Physical channel parameters

| | | |
|------------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.68 | |

6.11.5.4.1.17.2 Downlink

6.11.5.4.1.17.2.1 Transport channel parameters

6.11.5.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.17.2.1.3 TFCS

See clause 6.10.3.4.1.17.2.1.3.

6.11.5.4.1.17.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TPC / radio frame | 2x2 bits |

| | | |
|--|------------------|----------|
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.68 |

- 6.11.5.4.1.18 Void
- 6.11.5.4.1.19 Void
- 6.11.5.4.1.20 Void
- 6.11.5.4.1.21 Void
- 6.11.5.4.1.22 Void
- 6.11.5.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.5.4.1.23.1 Uplink

6.11.5.4.1.23.1.1 Transport channel parameters

6.11.5.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23.1.1.3 TFCS

See clause 6.10.3.4.1.23.1.1.3.

6.11.5.4.1.23.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 4 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 (alt. 0.44) |

6.11.5.4.1.23.2 Downlink

6.11.5.4.1.23.2.1 Transport channel parameters

6.11.5.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23.2.1.3 TFCS

See clause 6.10.3.4.1.23.2.1.3.

6.11.5.4.1.23.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 336 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |

| | | |
|--|------------------|------|
| | Puncturing Limit | 0.76 |
|--|------------------|------|

6.11.5.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23a.1 Uplink

6.11.5.4.1.23a.1.1 Transport channel parameters

6.11.5.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23a.1.1.3 TFCS

See clause 6.10.3.4.1.23a.1.1.3.

6.11.5.4.1.23a.1.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.68) |

6.11.5.4.1.23a.2 Downlink

See clause 6.11.5.4.1.23.2.

6.11.5.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23b.1 Uplink

6.11.5.4.1.23b.1.1 Transport channel parameters

6.11.5.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23b.1.1.3 TFCS

See clause 6.10.3.4.1.23b.1.1.3.

6.11.5.4.1.23b.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 688 bits |
| | TFCI code word / radio frame | 16bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.92 alt (0.84) |

6.11.5.4.1.23b.2 Downlink

6.11.5.4.1.23b.2.1 Transport channel parameters

6.11.5.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23b.2.1.3 TFCS

See clause 6.10.3.4.1.23b.2.1.3.

6.11.5.4.1.23b.2.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 3 code x 2 time slots |
| | Max. Number of data bits / radio frame | 512 bits |
| | TFCl code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.68 | |

6.11.5.4.1.23c Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23c.1 Uplink

6.11.5.4.1.23c.1.1 Transport channel parameters

6.11.5.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.1.1.1.

6.11.5.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23c.1.1.3 TFCS

See clause 6.10.3.4.1.23c.1.1.3.

6.11.5.4.1.23c.1.2 Physical channel parameters

| | | |
|------------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 4 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680bits |
| | TFCl code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.48 (alt 0.44) | |

6.11.5.4.1.23c.2 Downlink

6.11.5.4.1.23c.2.1 Transport channel parameters

6.11.5.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.2.1.1.

6.11.5.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23c.2.1.3 TFCS

See clause 6.10.3.4.1.23c.2.1.3.

6.11.5.4.1.23c.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23d.1 Uplink

6.11.5.4.1.23d.1.1 Transport channel parameters

6.11.5.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23d.1.1.3 TFCS

See clause 6.10.3.4.1.23d.1.1.3.

6.11.5.4.1.23d.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 4 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 (alt. 0.44) |

6.11.5.4.1.23d.2 Downlink

6.11.5.4.1.23d.2.1 Transport channel parameters

6.11.5.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.23d.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23d.2.1.3 TFCS

See clause 6.10.3.4.1.23d.2.1.3.

6.11.5.4.1.23d.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

- 6.11.5.4.1.24 Void.
- 6.11.5.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.5.4.1.25.1 Uplink
- See clause 6.11.5.4.1.23.1.
- 6.11.5.4.1.25.2 Downlink
- 6.11.5.4.1.25.2.1 Transport channel parameters
- 6.11.5.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB
- See clause 6.10.3.4.1.25.2.1.1.
- 6.11.5.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH
- See clause 6.10.3.4.1.2.2.1.1.
- 6.11.5.4.1.25.2.1.3 TFCS
- See clause 6.10.3.4.1.25.2.1.3.
- 6.11.5.4.1.25.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit/ radio frame | 0.56 |

- 6.11.5.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.5.4.1.26.1 Uplink
- 6.11.5.4.1.26.1.1 Transport channel parameters
- 6.11.5.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB
- See clause 6.10.3.4.1.26.1.1.1.
- 6.11.5.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH
- See clause 6.10.3.4.1.2.1.1.1.
- 6.11.5.4.1.26.1.1.3 TFCS
- See clause 6.10.3.4.1.26.1.1.3.
- 6.11.5.4.1.26.1.2 Physical channel parameters

| | | | |
|-------------|--------------------------------------|-----------------------------|-----------------------------|
| DPCH Uplink | | Physical 1 | Physical 2 |
| | Modulation | QPSK | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits | 2 792 bits |
| | TFCI code word / radio frame | 16 bits | 16 bits |
| | TPC / radio frame | 2x2 bits | 2x2 bits |
| | SS / radio frame | 2x2 bits | 2x2 bits |
| | Puncturing Limit | 0.56 (alt 0.48) | 1 |

6.11.5.4.1.26.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.27.2 Downlink

6.11.5.4.1.27.2.1 Transport channel parameters

6.11.5.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.27.2.1.3 TFCS

See clause 6.10.3.4.1.27.2.1.3.

6.11.5.4.1.27.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 3 144 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.28.1 Uplink

6.11.5.4.1.28.1.1 Transport channel parameters

6.11.5.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.28.1.1.3 TFCS

See clause 6.10.3.4.1.28.1.1.3.

6.11.5.4.1.28.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.28.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.29.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.29.2 Downlink

6.11.5.4.1.29.2.1 Transport channel parameters

6.11.5.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

See clause 6.10.3.4.1.29.2.1.1.

6.11.5.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.29.2.1.3 TFCS

See clause 6.10.3.4.1.29.2.1.3.

6.11.5.4.1.29.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 9 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 3 144 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.30.1 Uplink

6.11.5.4.1.30.1.1 Transport channel parameters

6.11.5.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

See clause 6.10.3.4.1.30.1.1.1.

6.11.5.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.30.1.1.3 TFCS

See clause 6.10.3.4.1.30.1.1.3.

6.11.5.4.1.30.1.2 Physical channel parameters

| | | | |
|-------------|--------------------------------------|---|----------------------------|
| DPCH Uplink | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | (SF1 x 1 code x 2 time slots) + (SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
| | Max. Number of data bits/radio frame | 4 200 bits | 4 188 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.72 (alt 0.64) | 0.72 (alt 0.64) |

6.11.5.4.1.30.2 Downlink

See clause 6.11.5.4.1.29.2.

6.11.5.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.31.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.31.2 Downlink

6.11.5.4.1.31.2.1 Transport channel parameters

6.11.5.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.31.2.1.3 TFCS

See clause 6.10.3.4.1.31.2.1.3.

6.11.5.4.1.31.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 5 608 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.32.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.32.2 Downlink

6.11.5.4.1.32.2.1 Transport channel parameters

6.11.5.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

6.11.5.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.32.2.1.3 TFCS

See clause 6.10.3.4.1.32.2.1.3.

6.11.5.4.1.32.2.2 Physical channel parameters

| | | | |
|---------------|--------------------------------------|-----------------------------|-----------------------------|
| DPCH Downlink | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 6 time slots | SF1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 8 424 bits | 8 412 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |

| | | | |
|--|------------------|----------|----------|
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.64 | 0.64 |

6.11.5.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.33.1 Uplink

See clause 6.11.5.4.1.28.1.

6.11.5.4.1.33.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.34.1 Uplink

6.11.5.4.1.34.1.1 Transport channel parameters

6.11.5.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.34.1.1.3 TFCS

See clause 6.10.3.4.1.34.1.1.3.

6.11.5.4.1.34.1.2 Physical channel parameters

| DPCH Uplink | Modulation | QPSK | 8PSK |
|-------------|--------------------------------------|------------------------------|------------------------------|
| | Codes and time slots / radio frame | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 8 424 bits | 8 412 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.64 | 0.64 |

6.11.5.4.1.34.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.35.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.35.2 Downlink

6.11.5.4.1.35.2.1 Transport channel parameters

6.11.5.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB |
|--------------|----------------------|-----------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 1 704 |
| | Max data rate, bps | 2 048 000 |
| | RLC header, bit | 16 |

| | | | |
|---|-----------------------|--------------------|--------------------|
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 1720 | |
| | TFS | TF0, bits | 0x1720 |
| | | TF1, bits | 1x1720 |
| | | TF2, bits | 2x1720 |
| | | TF3, bits | 4x1720 |
| | | TF4, bits | 8x1720 |
| | | TF5, bits | 12x1720 |
| | | TF6, bits | N/A (alt. 16x1720) |
| | | TF7, bits | N/A (alt. 20x1720) |
| | TF8, bits | N/A (alt. 24x1720) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | No coding | |
| CRC, bit | 24 | | |
| Max number of bits/TTI after channel coding | 20 928 (alt. 41 856) | | |
| Max number of bits/radio frame before rate matching | 20 928 (alt. 20 928) | | |
| RM attribute | 130 to 170 | | |

6.11.5.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.35.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 (alt.18) |
| TFCS | (2 048 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |

6.11.5.4.1.35.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation | 8PSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 10 time slots |
| | Max. Number of data bits/radio frame | 21 084 bits |
| | TFCI code word / radio frame | 24 bits |
| | TPC / radio frame | 2x3 bits |
| | SS / radio frame | 2x3 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.36 Void

6.11.5.4.1.37 Void

6.11.5.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38.1 Uplink

6.11.5.4.1.38.1.1 Transport channel parameters

6.11.5.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38.1.1.4 TFCS

See clause 6.10.3.4.1.38.1.1.4.

6.11.5.4.1.38.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.68) |

6.11.5.4.1.38.2 Downlink

6.11.5.4.1.38.2.1 Transport channel parameters

6.11.5.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38.2.1.4 TFCS

See clause 6.10.3.4.1.38.2.1.4.

6.11.5.4.1.38.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 3 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 504 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.44 |

6.11.5.4.1.38a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38a.1 Uplink

6.11.5.4.1.38a.1.1 Transport channel parameters

6.11.5.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38a.1.1.4 TFCS

See clause 6.10.3.4.1.38a.1.1.4.

6.11.5.4.1.38a.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.38a.2 Downlink

6.11.5.4.1.38a.2.1 Transport channel parameters

6.11.5.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38a.2.1.4 TFCS

See clause 6.10.3.4.1.38a.2.1.4.

6.11.5.4.1.38a.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.2.5.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38b.1 Uplink

6.11.5.4.1.38b.1.1 Transport channel parameters

6.11.5.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38b.1.1.4 TFCS

See clause 6.10.3.4.1.38b.1.1.4.

6.11.5.4.1.38b.1.2 Physical channel parameters

| | | |
|------------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.64 (alt. 0.60) | |

6.11.5.4.1.38b.2 Downlink

6.11.5.4.1.38b.2.1 Transport channel parameters

6.11.5.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38b.2.1.4 TFCS

See clause 6.10.3.4.1.38b.2.1.4.

6.11.5.4.1.38b.2.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.64 | |

6.11.5.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38c.1 Uplink

6.11.5.4.1.38c.1.1 Transport channel parameters

6.11.5.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38c.1.1.4 TFCS

See clause 6.10.3.4.1.38c.1.1.4.

6.11.5.4.1.38c.1.2 Physical channel parameters

| | | |
|-------------|------------|------|
| DPCH Uplink | Modulation | QPSK |
|-------------|------------|------|

| | | |
|--|--|--|
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.64) for TFCS size=18 0.80 (alt 0.72) for TFCS size=17 |

6.11.5.4.1.38c.2 Downlink

6.11.5.4.1.38c.2.1 Transport channel parameters

6.11.5.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38c.2.1.4 TFCS

See clause 6.10.3.4.1.38c.2.1.4.

6.11.5.4.1.38c.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.64) |

6.11.5.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38d.1 Uplink

6.11.5.4.1.38d.1.1 Transport channel parameters

6.11.5.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38d.1.1.4 TFCS

See clause 6.10.3.4.1.38d.1.1.4.

6.11.5.4.1.38d.1.2 Physical channel parameters

| | | | |
|-------------|------------|------|------|
| DPCH Uplink | Modulation | QPSK | 8PSK |
|-------------|------------|------|------|

| | | | |
|--|--------------------------------------|--|----------------------------|
| | Codes and time slots / radio frame | (SF1 x 1 code x 2 time slots) + (SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
| | Max. Number of data bits/radio frame | 4 200 bits | 4 188 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.72 (alt 0.64) | 0.72 (alt 0.64) |

6.11.5.4.1.38d.2 Downlink

6.11.5.4.1.38d.2.1 Transport channel parameters

6.11.5.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.2.1.2.

6.11.5.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38d.2.1.4 TFCS

See clause 6.10.3.4.1.38d.2.1.4.

6.11.5.4.1.38d.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 9 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 3 144 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.38e Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38e.1 Uplink

6.11.5.4.1.38e.1.1 Transport channel parameters

6.11.5.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38e.1.1.4 TFCS

See clause 6.10.3.4.1.38e.1.1.4.

6.11.5.4.1.38e.1.2 Physical channel parameters

| | | |
|------------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.48 | |

6.11.5.4.1.38e.2 Downlink

6.11.5.4.1.38e.2.1 Transport channel parameters

6.11.5.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38e.2.1.4 TFCS

See clause 6.10.3.4.1.38e.2.1.4.

6.11.5.4.1.38e.2.2 Physical channel parameters

| | | |
|------------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.48 | |

6.11.5.4.1.38f Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38f.1 Uplink

6.11.5.4.1.38f.1.1 Transport channel parameters

6.11.5.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38f.1.1.4 TFCS

See clause 6.10.3.4.1.38f.1.1.4.

6.11.5.4.1.38f.1.2 Physical channel parameters

| | | |
|------------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.64 (alt 0.60) | |

6.11.5.4.1.38f.2 Downlink

6.11.5.4.1.38f.2.1 Transport channel parameters

6.11.5.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38f.2.1.4 TFCS

See clause 6.10.3.4.1.38f.2.1.4.

6.11.5.4.1.38f.2.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.64 | |

6.11.5.4.1.38g Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38g.1 Uplink

6.11.5.4.1.38g.1.1 Transport channel parameters

6.11.5.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38g.1.1.4 TFCS

See clause 6.10.3.4.1.38g.1.1.4.

6.11.5.4.1.38g.1.2 Physical channel parameters

| | | |
|--|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 368 bits (alt. 1 384 bits) |
| | TFCI code word / radio frame | 32 bits (alt. 16 bits) |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.96 (alt 1.0) |
| NOTE: There are 32 bit and 16 bit TFCIs for the two cases. | | |

6.11.5.4.1.38g.2 Downlink

6.11.5.4.1.38g.2.1 Transport channel parameters

6.11.5.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38g.2.1.4 TFCS

See clause 6.10.3.4.1.38g.2.1.4.

6.11.5.4.1.38g.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 368 bits |
| | TFCI code word / radio frame | 32 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 1.0 |

6.11.5.4.1.38h Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38h.1 Uplink

6.11.5.4.1.38h.1.1 Transport channel parameters

6.11.5.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38h.1.1.4 TFCS

See clause 6.10.3.4.1.38h.1.1.4.

6.11.5.4.1.38h.1.2 Physical channel parameters

| | | |
|------------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 1 368 bits |
| | TFCI code word / radio frame | 32 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.72 (alt 0.64) | |

6.11.5.4.1.38h.2 Downlink

6.11.5.4.1.38h.2.1 Transport channel parameters

6.11.5.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38h.2.1.4 TFCS

See clause 6.10.3.4.1.38h.2.1.4.

6.11.5.4.1.38h.2.2 Physical channel parameters

| | | |
|------------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 368 bits |
| | TFCI code word / radio frame | 32 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.72 | |

6.11.5.4.1.38i Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38i.1 Uplink

6.11.5.4.1.38i.1.1 Transport channel parameters

6.11.5.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38i.1.1.4 TFCS

See clause 6.10.3.4.1.38i.1.1.4.

6.11.5.4.1.38i.1.2 Physical channel parameters

| DPCH Uplink | Modulation | QPSK | 8PSK |
|--------------------------------------|------------------------------------|--|----------------------------|
| | Codes and time slots / radio frame | (SF1 x 1 code x 2 time slots) + (SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
| Max. Number of data bits/radio frame | 4 184 bits | 4 164 bits | |
| TFCI code word / radio frame | 32 bits | 48 bits | |
| TPC / radio frame | 2x2 bits | 2x3 bits | |
| SS / radio frame | 2x2 bits | 2x3 bits | |
| Puncturing Limit | 1 | 1 | |

6.11.5.4.1.38i.2 Downlink

6.11.5.4.1.38i.2.1 Transport channel parameters

6.11.5.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38i.2.1.4 TFCS

See clause 6.10.3.4.1.38i.2.1.4.

6.11.5.4.1.38i.2.2 Physical channel parameters

| DPCH Downlink | Modulation | QPSK |
|--------------------------------------|------------------------------------|--------------------------------|
| | Codes and time slots / radio frame | SF 16 x 9 codes x 4 time slots |
| Max. Number of data bits/radio frame | 3 128 bits | |
| TFCI code word / radio frame | 32 bits | |
| TPC / radio frame | 2x2 bits | |
| SS / radio frame | 2x2 bits | |
| Puncturing Limit | 1 | |

6.11.5.4.1.38j Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38j.1 Uplink

See clause 6.11.5.4.1.38i.1.

6.11.5.4.1.38j.2 Downlink

6.11.5.4.1.38j.2.1 Transport channel parameters

6.11.5.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38j.2.1.4 TFCS

See clause 6.10.3.4.1.38j.2.1.4.

6.11.5.4.1.38j.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 9 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 3 128 bits |
| | TFCI code word / radio frame | 32 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.39.1 Uplink

See clause 6.11.5.4.1.38.1.

6.11.5.4.1.39.2 Downlink

6.11.5.4.1.39.2.1 Transport channel parameters

6.11.5.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.39.2.1.4 TFCS

See clause 6.10.3.4.1.39.2.1.4.

6.11.5.4.1.39.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 10 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 736 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.40.1 Uplink

6.11.5.4.1.40.1.1 Transport channel parameters

See clause 6.10.3.4.1.40.1.1.

6.11.5.4.1.40.1.2 Physical channel parameters

6.11.5.4.1.40.1.2.1 Physical channel parameters (one CCTrCH case)

| | | |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |

| | | |
|--|--------------------------------------|------------------|
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.92 (alt. 0.84) |

6.11.5.4.1.40.1.2.2 Physical channel parameters (two CCTrCH case)

6.11.5.4.1.40.1.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.1.2.

6.11.5.4.1.40.1.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 (alt. 0.56) |

6.11.5.4.1.40.2 Downlink

6.11.5.4.1.40.2.1 Transport channel parameters

See clause 6.10.3.4.1.40.2.1.

6.11.5.4.1.40.2.2 Physical channel parameters

6.11.5.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.11.5.4.1.39.2.2.

6.11.5.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.41.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.41.2 Downlink

6.11.5.4.1.41.2.1 Transport channel parameters

See clause 6.10.3.4.1.41.2.1.

6.11.5.4.1.41.2.2 Physical channel parameters

6.11.5.4.1.41.2.2.1 Physical channel parameters (one CCTrCH case)

| DPCH Downlink | Modulation | QPSK | 8PSK |
|--------------------------------------|------------------------------------|--------------------------------|---------------------------------|
| | Codes and time slots / radio frame | SF 16 x 9 codes x 4 time slots | SF 16 x 12 codes x 2 time slots |
| Max. Number of data bits/radio frame | 3 144 bits | 3 132 bits | |
| TFCI code word / radio frame | 16 bits | 24 bits | |
| TPC / radio frame | 2x2 bits | 2x3 bits | |
| SS / radio frame | 2x2 bits | 2x3 bits | |
| Puncturing Limit | 0.60 | 0.60 | |

6.11.5.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH Downlink | Modulation | QPSK | 8PSK |
|--------------------------------------|------------------------------------|------------------------------|---------------------------------|
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots | SF 16 x 11 codes x 2 time slots |
| Max. Number of data bits/radio frame | 2 792 bits | 2868 bits | |
| TFCI code word / radio frame | 16 bits | 24 bits | |
| TPC / radio frame | 2x2 bits | 2x3 bits | |
| SS / radio frame | 2x2 bits | 2x3 bits | |
| Puncturing Limit | 0.64 | 0.64 | |

6.11.5.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.42.1 Uplink

6.11.5.4.1.42.1.1 Transport channel parameters

See clause 6.10.3.4.1.42.1.1.

6.11.5.4.1.42.1.2 Physical channel parameters

See clause 6.10.3.4.1.40.1.2.1.

6.11.5.4.1.42.2 Downlink

6.11.5.4.1.42.2.1 Transport channel parameters

6.11.5.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.42.2.1.4 TFCS

See clause 6.10.3.4.1.42.2.1.4.

6.11.5.4.1.42.2.2 Physical channel parameters

| DPCH Downlink | Modulation | QPSK | 8PSK |
|--------------------------------------|------------------------------------|-----------------------------|-----------------------------|
| | Codes and time slots / radio frame | SF1 x 1 code x 6 time slots | SF1 x 1 code x 4 time slots |
| Max. Number of data bits/radio frame | 8 408 bits | 8 388 bits | |
| TFCI code word / radio frame | 32 bits | 48 bits | |
| TPC / radio frame | 2x2 bits | 2x3 bits | |

| | | | |
|--|------------------|----------|----------|
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.80 | 0.80 |

6.11.5.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.43.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.43.2 Downlink

6.11.5.4.1.43.2.1 Transport channel parameters

See clause 6.10.3.4.1.43.2.1.

6.11.5.4.1.43.2.2 Physical channel parameters

6.11.5.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

| | | | |
|---------------|--------------------------------------|------------------------------|------------------------------|
| DPCH Downlink | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 8 408 bits | 8 388 bits |
| | TFCI code word / radio frame | 32 bits | 48 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.60 | 0.60 |

6.11.5.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

| | | | |
|---------------|--------------------------------------|---|------------------------------|
| DPCH Downlink | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | (SF 1 x 1 code x 4 time slots) + (SF 16 x 10 codes x 2 time slots) | SF 1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 7 368 bits | 8 412 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.56 | 0.64 |

6.11.5.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.44.1 Uplink

6.11.5.4.1.44.1.1 Transport channel parameters

6.11.5.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.44.1.1.4 TFCS

See clause 6.10.3.4.1.44.1.1.4.

6.11.5.4.1.44.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | 8PSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 4 188 bits |
| | TFCI code word / radio frame | 24 bits |
| | TPC / radio frame | 2x3 bits |
| | SS / radio frame | 2x3 bits |
| | Puncturing Limit | 0.80 (alt 0.72) |

6.11.5.4.1.44.2 Downlink

6.11.5.4.1.44.2.1 Transport channel parameters

6.11.5.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.11.5.4.1.35.2.1.1.

6.11.5.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.44.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 32 (alt. 50) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2 048 kbps RAB , DCCH)= ((TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1)) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1)) |

For better understanding of the TFCS please note that the following combinations are not included in the table above:

- (TF2, TF1, TF1, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF2, TF1, TF1, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1).

6.11.5.4.1.44.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation | 8PSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 10 time slots |
| | Max. Number of data bits/radio frame | 21 060 bits |
| | TFCI code word / radio frame | 48 bits |
| | TPC / radio frame | 2x3 bits |
| | SS / radio frame | 2x3 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.45.1 Uplink

6.11.5.4.1.45.1.1 Transport channel parameters

6.11.5.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.45.1.1.4 TFCS

See clause 6.10.3.4.1.45.1.1.4.

6.11.5.4.1.45.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.45.2 Downlink

6.11.5.4.1.45.2.1 Transport channel parameters

6.11.5.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.45.2.1.4 TFCS

See clause 6.10.3.4.1.45.2.1.4.

6.11.5.4.1.45.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 9 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 560 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.46 Void

6.11.5.4.1.47 Void

6.11.5.4.1.48 Void

6.11.5.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49.1 Uplink

6.11.5.4.1.49.1.1 Transport channel parameters

6.11.5.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49.1.1.4 TFCS

See clause 6.10.3.4.1.49.1.1.4.

6.11.5.4.1.49.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.88 |

6.11.5.4.1.49.2 Downlink

6.11.5.4.1.49.2.1 Transport channel parameters

6.11.5.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49.2.1.4.

6.11.5.4.1.49.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 11 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 912 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.49a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49a.1 Uplink

6.11.5.4.1.49a.1.1 Transport channel parameters

6.11.5.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49a.1.1.4 TFCS

See clause 6.10.3.4.1.49a.1.1.4.

6.11.5.4.1.49a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.88 |

6.11.5.4.1.49a.2 Downlink

6.11.5.4.1.49a.2.1 Transport channel parameters

6.11.5.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49a.2.1.4.

6.11.5.4.1.49a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 11 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1 912 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.50.1 Uplink

6.11.5.4.1.50.1.1 Transport channel parameters

6.11.5.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.50.1.1.3 TFCS

See clause 6.10.3.4.1.50.1.1.3.

6.11.5.4.1.50.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.50.2 Downlink

6.11.5.4.1.50.2.1 Transport channel parameters

6.11.5.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.50.2.1.3 TFCS

See clause 6.10.3.4.1.50.2.1.3.

6.11.5.4.1.50.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 15 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2 616 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.48 |

6.11.5.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51.1 Uplink

6.11.5.4.1.51.1.1 Transport channel parameters

6.11.5.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51.1.1.4 TFCS

See clause 6.10.3.4.1.51.1.1.4.

6.11.5.4.1.51.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

6.11.5.4.1.51.2 Downlink

6.11.5.4.1.51.2.1 Transport channel parameters

6.11.5.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51a.1 Uplink

6.11.5.4.1.51a.1.1 Transport channel parameters

6.11.5.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51a.1.1.4 TFCS

See clause 6.10.3.4.1.51a.1.1.4.

6.11.5.4.1.51a.1.2 Physical channel parameters

| DPCH Uplink | | Physical 1 | Physical 2 |
|--------------------------------------|------------|-----------------------------|-----------------------------|
| | Modulation | | QPSK |
| Codes and time slots / radio frame | | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | | 1 384 bits | 2 792 bits |
| TFCI code word / radio frame | | 16 bits | 16 bits |
| TPC / radio frame | | 2x2 bits | 2x2 bits |
| SS / radio frame | | 2x2 bits | 2x2 bits |
| Puncturing Limit | | 0.40 | 0.84 |

6.11.5.4.1.51a.2 Downlink

6.11.5.4.1.51a.2.1 Transport channel parameters

6.11.5.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51a.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51a.2.2 Physical channel parameters

| DPCH Downlink | | QPSK |
|--------------------------------------|------------|-----------------------------|
| | Modulation | |
| Codes and time slots / radio frame | | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | | 2 792 bits |
| TFCI code word / radio frame | | 16 bits |
| TPC / radio frame | | 2x2 bits |
| SS / radio frame | | 2x2 bits |
| Puncturing Limit | | 0.84 |

6.11.5.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51b.1 Uplink

6.11.5.4.1.51b.1.1 Transport channel parameters

6.11.5.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51b.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51b.1.1.4 TFCS

See clause 6.10.3.4.1.51b.1.1.4.

6.11.5.4.1.51b.1.2 Physical channel parameters

| DPCH Uplink | | Physical 1 | Physical 2 |
|--------------------------------------|--|-----------------------------|-----------------------------|
| Modulation | | QPSK | QPSK |
| Codes and time slots / radio frame | | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | | 1 384 bits | 2 792 bits |
| TFCI code word / radio frame | | 16 bits | 16 bits |
| TPC / radio frame | | 2x2 bits | 2x2 bits |
| SS / radio frame | | 2x2 bits | 2x2 bits |
| Puncturing Limit | | 0.40 | 0.76 |

6.11.5.4.1.51b.2 Downlink

See clause 6.11.5.4.1.51.2.

6.11.5.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.52.1 Uplink

See clause 6.11.5.4.1.51.1.

6.11.5.4.1.52.2 Downlink

6.11.5.4.1.52.2.1 Transport channel parameters

6.11.5.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.52.2.1.4 TFCS

See clause 6.10.3.4.1.52.2.1.4.

6.11.5.4.1.52.2.2 Physical channel parameters

| | | |
|------------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 12 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 4 200 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.52 | |

6.11.5.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.53.1 Uplink

6.11.5.4.1.53.1.1 Transport channel parameters

6.11.5.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.53.1.1.4 TFCS

See clause 6.10.3.4.1.53.1.1.4.

6.11.5.4.1.53.1.2 Physical channel parameters

| | | | |
|------------------|--------------------------------------|-----------------------------|----------------------------|
| DPCH Uplink | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 4 time slots | SF1 x 1code x 2 time slots |
| | Max. Number of data bits/radio frame | 5 608 bits | 4 188 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| Puncturing Limit | 0.72 (alt 0.68) | 0.52 (alt 0.48) | |

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54 Void

6.11.5.4.1.55 Void

6.11.5.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.56.1 Uplink

6.11.5.4.1.56.1.1 Transport channel parameters

6.11.5.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.1.1.1.

6.11.5.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.56.1.1.3 TFCS

See clause 6.10.3.4.1.56.1.1.3.

6.11.5.4.1.56.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.84 (alt 0.76) |

6.11.5.4.1.56.2 Downlink

6.11.5.4.1.56.2.1 Transport channel parameters

6.11.5.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.2.1.1.

6.11.5.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.56.2.1.3 TFCS

See clause 6.10.3.4.1.56.2.1.3.

6.11.5.4.1.56.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.84 |

6.11.5.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.57.1 Uplink

6.11.5.4.1.57.1.1 Transport channel parameters

6.11.5.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.57.1.1.3 TFCS

See clause 6.11.5.4.1.57.1.1.3.

6.11.5.4.1.57.1.2 Physical channel parameters

| | | |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink | | Physical 1 |
| | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |

| | | |
|--|--------------------------------------|------------------|
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 (alt. 0.44) |

6.11.5.4.1.57.2 Downlink

6.11.5.4.1.57.2.1 Transport channel parameters

6.11.5.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

See clause 6.10.3.4.1.57.2.1.1.

6.11.5.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.57.2.1.3 TFCS

See clause 6.10.3.4.1.57.2.1.3.

6.11.5.4.1.57.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.58.1 Uplink

6.11.5.4.1.58.1.1 Transport channel parameters

6.11.5.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.58.1.1.1.

6.11.5.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.58.1.1.4 TFCS

See clause 6.10.3.4.1.58.1.1.4.

6.11.5.4.1.58.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 (alt 0.56) |

6.11.5.4.1.58.2 Downlink

6.11.5.4.1.58.2.1 Transport channel parameters

6.11.5.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.58.2.1.1.

6.10.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.58.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

6.11.5.4.1.58.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 8 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1 384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.44 |

6.11.5.4.1.59 Reserved for future use

6.11.5.4.1.60 Reserved for future use

6.11.5.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.61.1 Uplink

6.11.5.4.1.61.1.1 Transport channel parameters

6.11.5.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.1.1.1.

6.10.5.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.61.1.1.4 TFCS

See clause 6.10.3.4.1.61.1.1.4.

6.11.5.4.1.61.2 Physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.84 (alt 0.80) |

6.11.5.4.1.61.2 Downlink

6.11.5.4.1.61.2.1 Transport channel parameters

6.11.5.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.2.1.1.

6.11.5.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.61.2.1.4 TFCS

See clause 6.10.3.4.1.61.2.1.4.

6.11.5.4.1.61.2.2 Physical channel parameters

| | | |
|---------------|--|-------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.84 |

6.11.5.4.1.62 Interactive or background / UL:256 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.62.1 Uplink

6.11.5.4.1.62.1.1 Transport channel parameters

6.11.5.4.1.62.1.1.1 Transport channel parameters for Interactive or background / UL:256 kbps / PS RAB

| | | | |
|---|----------------------|---------------------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 256 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | N/A (alt. 12x336) |
| | TF6, bits | N/A (alt. 16x336) | |
| | TTI, ms | | 10(alt. 20) |
| | Coding type | | TC |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 8 460 (alt. 16 920) | |
| Max number of bits/radio frame before rate matching | | 8 460 (alt. 8 460) | |
| RM attribute | | 135 to 175 | |

6.11.5.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.62.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 (alt.14) |
| TFCS | (256 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.5.4.1.62.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 5 608 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.62.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.1.63 Streaming / unknown / UL:16 DL:32 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.63.1 Uplink

See clause 6.11.5.4.1.58.1.

6.11.5.4.1.63.2 Downlink

6.11.5.4.1.63.2.1 Transport channel parameters

6.11.5.4.1.63.2.1.1 Transport channel parameters for Streaming / unknown / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.63.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.63.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.63.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (32 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.5.4.1.63.2.2 Physical channel parameters

| | | |
|---------------|--|---|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots+ SF16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1032 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.64 Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.64.1 Uplink

See clause 6.11.5.4.1.58.1.

6.11.5.4.1.64.2 Downlink

6.11.5.4.1.64.2.1 Transport channel parameters

6.11.5.4.1.64.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.64.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.64.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

6.11.5.4.1.64.2.2 Physical channel parameters

| | | |
|---------------|--|--|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots+ SF16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 3134 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.65 Streaming / unknown / UL:32 DL:256 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.65.1 Uplink

6.11.5.4.1.65.1.1 Transport channel parameters

6.11.5.4.1.65.1.1.1 Transport channel parameters for Streaming / unknown / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.65.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.65.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.65.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (32 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.5.4.1.65.1.2 Physical channel parameters

| | | |
|-------------|--|---|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots+ SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1032 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.65.2 Downlink

6.11.5.4.1.65.2.1 Transport channel parameters

6.11.5.4.1.65.2.1.1 Transport channel parameters for Streaming / unknown / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.65.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.65.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 (alt.28) |
| TFCS | (256 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), (alt. (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF5,TF0,TF0), (TF6,TF0,TF0),(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0), (TF5,TF1,TF0), (TF6,TF1,TF0),(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (TF5,TF0,TF1), (TF6,TF0,TF1),(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), (TF5,TF1,TF1), (TF6,TF1,TF1)) |

6.11.5.4.1.65.2.2 Physical channel parameters

| | | |
|---------------|--|--|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 4 time slots+ SF16 x 2 code x 2 time slots |
| | Max. Number of data bits / radio frame | 5960 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.1.66 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.66.1 Uplink

See clause 6.11.5.4.1.44.1.

6.11.5.4.1.66.2 Downlink

See clause 6.11.5.4.1.41.1.

6.11.5.4.1.67 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.67.1 Uplink

6.11.5.4.1.67.1.1 Transport channel parameters

6.11.5.4.1.67.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.67.1.1.2 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.58.1.1.1.

6.11.5.4.1.67.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.67.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.67.1.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, 8 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0,TF0),(TF1,TF0,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0,TF0),(TF0,TF0,TF0,TF1,TF0,TF0),(TF1,TF0,TF0,TF1,TF0,TF0),(TF2,TF1,TF1,TF1,TF0,TF0),(TF0,TF0,TF0,TF0,TF1,TF0),(TF1,TF0,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF0,TF1,TF0),(TF0,TF0,TF0,TF1,TF1,TF0),(TF1,TF0,TF0,TF1,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0),(TF0,TF0,TF0,TF0,TF0,TF1),(TF1,TF0,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF0,TF1),(TF0,TF0,TF0,TF1,TF0,TF1),(TF1,TF0,TF0,TF1,TF0,TF1),(TF2,TF1,TF1,TF1,TF0,TF1),(TF0,TF0,TF0,TF0,TF1,TF1),(TF1,TF0,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF0,TF1,TF1),(TF0,TF0,TF0,TF1,TF1,TF1),(TF1,TF0,TF0,TF1,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1) |

6.11.5.4.1.67.1.2 Physical channel parameters

| | | |
|------------------|--|---|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF4 x 1 code x 2 time slots + SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1032 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | 0.56 | |

6.11.5.4.1.67.2 Downlink

6.11.5.4.1.67.2.1 Transport channel parameters

6.11.5.4.1.67.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.67.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.58.2.1.1.

6.11.5.4.1.67.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.67.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.67.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 48 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.5.4.1.67.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 8 codes x 2 time slots+ SF 16 x 4 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2028 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.68 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.68.1 Uplink

See clause 6.11.5.4.1.67.1.

6.11.5.4.1.68.2 Downlink

6.11.5.4.1.68.2.1 Transport channel parameters

6.11.5.4.1.68.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.68.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.68.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.68.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.68.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.5.4.1.68.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 codes x 2 time slots+ SF 16 x 4 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 3496 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.69 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.69.1 Uplink

6.11.5.4.1.69.1.1 Transport channel parameters

6.11.5.4.1.69.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.69.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.69.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.69.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.69.1.1.5 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |

6.11.5.4.1.69.1.2 Physical channel parameters

| | | |
|-------------|--|---|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF1 x 1 code x 2 time slots+ SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 3496 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.1.69.2 Downlink

See clause 6.11.5.4.1.67.2.

6.11.5.4.1.70 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.70.1 Uplink

6.11.5.4.1.70.1.1 Transport channel parameters

6.11.5.4.1.70.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| | | | | |
|--------------|----------------------|--------------------------------|--------|--------|
| Higher layer | RAB/Signalling RB | RAB | RAB | RAB |
| RLC | Logical channel type | DTCH | DTCH | DTCH |
| | RLC mode | AM | AM | AM |
| | Payload sizes, bit | 320 | 320 | 320 |
| | Max data rate, bps | 64 000 | 64 000 | 64 000 |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 |
| | MAC multiplexing | 3 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |

| | | |
|---|------------|-------|
| TFS | TF0, bits | 0x340 |
| | TF1, bits | 1x340 |
| | TF2, bits | 2x340 |
| | TF3, bits | 3x340 |
| | TF4, bits | 4x340 |
| TTI, ms | 20 | |
| Coding type | TC | |
| CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 4 284 | |
| Max number of bits/radio frame before rate matching | 2142 | |
| RM attribute | 130 to 170 | |

6.11.5.4.1.70.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.70.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.11.5.4.1.70.1.2 Physical channel parameters

See clause 6.11.5.4.1.57.1.2.

6.11.5.4.1.70.2 Downlink

6.11.5.4.1.70.2.1 Transport channel parameters

6.11.5.4.1.70.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | RAB | |
|--------------|---|--------------------------------|--------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | DTCH | |
| | RLC mode | AM | AM | AM | |
| | Payload sizes, bit | 320 | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | 4 | |
| | MAC multiplexing | 3 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 340 | | | |
| | TFS | TF0, bits | 0x340 | | |
| | | TF1, bits | 1x340 | | |
| | | TF2, bits | 2x340 | | |
| | | TF3, bits | 3x340 | | |
| | | TF4, bits | 4x340 | | |
| | TTI, ms | 20 | | | |
| | Coding type | TC | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 4 284 | | | |
| | Uplink: Max number of bits/radio frame before rate matching | 2 142 | | | |
| | RM attribute | 130 to 170 | | | |

6.11.5.4.1.70.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.70.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB + 64 kbps RAB, DCCH)= |

| | |
|--|---|
| | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
|--|---|

6.11.5.4.1.70.2.2 Physical channel parameters

See clause 6.11.5.4.1.57.2.2.

6.11.5.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.5.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.1.1 Uplink

6.11.5.4.2.1.1.1 Transport channel parameters

6.11.5.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.2.1.1.1.3 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.3.

6.11.5.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

6.11.5.4.2.1.1.2 Physical channel parameters

6.11.5.4.2.1.1.2.1 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|------------------------------|
| PUSCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.88 |

6.11.5.4.2.1.1.2.2 Physical channel parameter for PRACH.

See clause 6.11.5.4.5.1.2.

6.11.5.4.2.1.2 Downlink

6.11.5.4.2.1.2.1 Transport channel parameters

6.11.5.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.1.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.3.

6.11.5.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.11.5.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 | |
|--------------|---|--------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC | |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH | |
| | RLC mode | UM | UM | AM | AM | AM | UM | TM | |
| | Payload sizes, bit | 160 | 136 or 120* | 128 | 128 | 128 | 160 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 000) | |
| | RLC header, bit | 8 | 8 | 16 | 16 | 16 | 8 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 | |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | |
| | TB sizes, bit | 171 | 171 | 171 | 171 | 171 | 171 | 171 | |
| | TFS | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits | 2x171 | | | | | | |
| | | TF3, bits | 3x171(alt. N/A) | | | | | | |
| | | TF4, bits | 4x171(alt. N/A) | | | | | | |
| | | TF5, bits | | | | | | | |
| | TF6, bits | | | | | | | | |
| | TTI, ms | 20 | | | | | | | |
| | Coding type | CC 1/2 | | | | | | | |
| | CRC, bit | 16 | | | | | | | |
| | Max number of bits/TTI after channel coding | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) | 1 528 (alt. 764) |

NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

6.11.5.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 |
|--------------|-----------------------------|--------------------------------|----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH |
| | RLC mode | AM | UM | UM | AM | AM | AM | UM | TM |
| | Payload sizes, bit | 320 | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
| | AMD/UMD/TrD PDU header, bit | 16 | 8 | 8 | 16 | 16 | 16 | 8 | 0 |
| MAC | MAC header, bit | 27 | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 |
| | MAC multiplexing | 8 logical channel multiplexing | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | |
| | TB sizes, bit | 171, 363 | | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits | 2x171 | | | | | | |
| | | TF3, bits | 1x363 | | | | | | |
| | | TF4, bits | 3x171 (alt N/A) | | | | | | |
| | | TF5, bits | 4x171 (alt. N/A) | | | | | | |

| | | |
|---|---|------------------|
| | TF6, bits | 2x363 (alt. N/A) |
| | TTI, ms | 20 |
| | Coding type | CC 1/2 |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 532 (alt. 766) |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | |

6.11.5.4.2.1.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.11.5.4.2.1.2.2 Physical channel parameters

6.11.5.4.2.1.2.2.1 Physical channel parameters for PDSCH

| | | | |
|-------|--------------------------------------|--------------------------------|-----------------------------|
| PDSCH | Modulation | QPSK | 8PSK |
| | Codes and time slots / radio frame | SF16 x 11 codes x 6 time slots | SF1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 5 784 bits | 6 511 bits |
| | TFCI code word / radio frame | 16 bits | 24 bits |
| | TPC / radio frame | 2x2 bits | 2x3 bits |
| | SS / radio frame | 2x2 bits | 2x3 bits |
| | Puncturing Limit | 0.60 | 0.68 |

6.11.5.4.2.1.2.2.2 Physical channel parameters for SCCPCH

6.11.5.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

| | | |
|---------|--------------------------------------|--|
| S-CCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 5 codes x 2 time slots (alt. SF16 x 2 codes x 2 time slot) |
| | Max. Number of data bits/radio frame | 864 bits (alt. 344 bits) |
| | TFCI code word / radio frame | 16 bits |
| | TP(alt. 8 bits)C/ radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 1 (alt. 0.88) |

6.11.5.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| | | |
|---------|--------------------------------------|--|
| S-CCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 5 codes x 2 time slots (alt. SF16 x 2 codes x 2 time slot) |
| | Max. Number of data bits/radio frame | 864 bits (alt. 336 bits) |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 1 (alt. 0.84) |

6.11.5.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.2.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.2.2 Downlink

6.11.5.4.2.2.2.1 Transport channel parameters

6.11.5.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.1.1.

6.11.5.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.2.1.3.

6.11.5.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.2.2 Physical channel parameters

6.11.5.4.2.2.2.1 Physical channel parameters for PDSCH

| | | |
|------------------|--------------------------------------|------------------------------|
| PDSCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 1 x 1 code x 6 time slots |
| | Max. Number of data bits/radio frame | 8 424 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| Puncturing Limit | | 0.60 |

6.11.5.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.5.4.2.1.2.2.2.

6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.3.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.3.2 Downlink

6.11.5.4.2.3.2.1 Transport channel parameters

6.11.5.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
|--------------|----------------------|-----------|--------|-------|
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | UM | |
| | Payload sizes, bit | 1 704 | 160 | |
| | Max data rate, bps | 2 048 000 | 16 000 | |
| | RLC header, bit | 16 | 8 | |
| MAC | MAC header, bit | 0 | 0 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DSCH | DSCH | |
| | TB sizes, bit | 1720 | 168 | |
| | TFS | TF0, bits | 0x1720 | 0x168 |
| | | TF1, bits | 1x1720 | 1x168 |
| | | TF2, bits | 2x1720 | N/A |
| | | TF3, bits | 4x1720 | N/A |
| | | TF4, bits | 8x1720 | N/A |
| TF5, bits | | 12x1720 | N/A | |

| | | | |
|--|---|----------------------|------------|
| | TF6, bits | N/A (alt. 16x1720) | N/A |
| | TF7, bits | N/A (alt. 20x1720) | N/A |
| | TF8, bits | N/A (alt. 24x1720) | N/A |
| | TTI, ms | 10 (alt. 20) | 10 |
| | Coding type | No Coding | CC 1/2 |
| | CRC, bit | 24 | 16 |
| | Max number of bits/TTI after channel coding | 20 928 (alt. 41 856) | 384 |
| | Downlink: Max number of bits/radio frame before rate matching | 20 928 (alt. 20 928) | 384 |
| | RM attribute | 135 to 175 | 180 to 220 |

6.11.5.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.3.2.1.3 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 22 (alt.34) |
| TFCS | (2 048 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1)) |

For better understanding of the TFCS please note that the following combinations are not included in the table above:

- (TF5, TF1, TF0), (TF5, TF1, TF1), (TF8, TF1, TF0), (TF8, TF1, TF1).

6.11.5.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.3.2.2 Physical channel parameters

6.11.5.4.2.3.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|------------------------------|
| PDSCH | Modulation | 8PSK |
| | Codes and time slots / radio frame | SF1 x 1 code x 10 time slots |
| | Max. Number of data bits/radio frame | 21 084 bits |
| | TFCI code word / radio frame | 24 bits |
| | TPC / radio frame | 2x3 bits |
| | SS / radio frame | 2x3 bits |
| | Puncturing Limit | 1 |

6.11.5.4.2.3.2.2.2 Physical channel parameters for S-CCPCH

See clause 6.11.5.4.2.1.2.2.2.

6.11.5.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.11.5.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.1.1 Uplink

6.11.5.4.3.1.1.1 Transport channel parameters

6.11.5.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.3.1.1.1.5.

6.11.5.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.3.1.1.1.6.

6.11.5.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.11.5.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.11.5.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.11.5.4.2.1.1.2.

6.11.5.4.3.1.2 Downlink

6.11.5.4.3.1.2.1 Transport channel parameters

6.11.5.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.1.2.1.5.

6.11.5.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| | | | | | |
|---|---|--------------------------------|--------|--------|--|
| Higher layer | RAB/Signalling RB | SRB#0 | SRB#5 | SRB#6 | |
| | User of Radio Bearer | RRC | RRC | RRC | |
| RLC | Logical channel type | CCCH | SHCCH | BCCH | |
| | RLC mode | UM | UM | TM | |
| | Payload sizes, bit | 160 | 160 | 168 | |
| | Max data rate, bps | 32 000 | 32 000 | 33 600 | |
| | RLC header, bit | 8 | 8 | 0 | |
| MAC | MAC header, bit | 3 | | | |
| | MAC multiplexing | 3 logical channel multiplexing | | | |
| Layer 1 | TrCH type | FACH | | | |
| | TB sizes, bit | 171 | | | |
| | TFS | TF0, bits | 0x171 | | |
| | | TF1, bits | 1x171 | | |
| | | TF2, bits | 2x171 | | |
| | | TF3, bits | 3x171 | | |
| | | TF4, bits | 4x171 | | |
| | TTI, ms | 20 | | | |
| | Coding type | CC 1/2 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 1 528 | | | |
| Max number of bits/radio frame before rate matching | 764 | | | | |

6.11.5.4.3.1.2.1.7 TFCS for FACH

| | |
|-----------|--------------------------------|
| TFCS size | 5 |
| TFCS | FACH = TF0, TF1, TF2, TF3, TF4 |

6.11.5.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.2.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.2.2 Downlink

6.11.5.4.3.2.2.1 Transport channel parameters

6.11.5.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.1.4.1.4.2.1.1.

6.11.5.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.2.2.1.5.

6.11.5.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.2.2.2.

Physical channel parameters for downlink for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.3.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.3.2 Downlink

6.11.5.4.3.3.2.1 Transport channel parameters

6.11.5.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.5.4.2.3.2.1.2.

6.11.5.4.3.3.2.1.5 TFCS for DSCH

See clause 6.11.5.4.2.3.2.1.4.

6.11.5.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.11.5.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.4 Combinations on SCCPCH

6.11.5.4.4.1 Stand-alone signalling RB for PCCH

6.11.5.4.4.1.1 Transport channel parameters

6.11.5.4.4.1.1.1 Transport channel parameter of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.1.1.2 TFCS

See clause 6.10.3.4.4.1.1.2.

6.11.5.4.4.1.2 Physical channel parameters

| | | |
|---------|--|---|
| S-CCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 2 codes x 2 time slots (alt. SF16 x 1 codes x 2 time slots) |
| | Max. Number of data bits/radio frame | 344 bits (alt. 168 bits) |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 1 (alt. 0.84) |
| NOTE: | Alt. Puncturing Limit applies when alt. payload sizes and alt. codes and time slots / radio frame are both configured. | |

6.11.5.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2.1 Transport channel parameters

6.11.5.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| | | | |
|--------------|---|-----------------------------|-------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | Interactive/ Background RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 27 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 363 | |
| | TFS | TF0, bits | 0x363 |
| | | TF1, bits | 1x363 |
| | | TF2, bits | 2x363 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 2298 | |
| | RM attribute | 110 to 150 | |

6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| | | | | | | | | |
|---|---|--------------------------------|---|----------------------------|------------------------------|-----------------------------|----------------------------|--|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#0 RRC | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio | SRB#5 RRC | |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH | |
| | RLC mode | UM | UM | AM | AM | AM | TM | |
| | Payload sizes, bit | 160 | 136 or 120 | 128 | 128 | 128 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 2400 (alt. 24 000 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 33 600 (alt. 16 800) | |
| | RLC header, bit | 8 | 8 | 16 | 16 | 16 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | |
| | TB sizes, bit | 171 | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | |
| | | TF1, bits | 1x171 | | | | | |
| | | TF2, bits | 2x171 | | | | | |
| | | TF3, bits | 3x171 (alt. N/A) | | | | | |
| | | TF4, bits | 4x171 (alt. N/A) | | | | | |
| | TTI, ms | 20 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI before rate matching | 1 528 (alt. 764) | | | | | | |
| | Max number of bits/radio frame before rate matching | 764 (alt. 382) | | | | | | |
| | RM attribute | 200 to 240 | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | |

6.11.5.4.4.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 9 (alt 13) |
| TFCS | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB) = (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF0, TF2), (TF1, TF2) , (TF2, TF2) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF0, TF2), (TF1, TF2) , (TF2, TF2)) |

6.11.5.4.4.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|--|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 5 codes x 2 time slots (alt. SF16 x 2 codes x 2 time slots) |
| | Max. Number of data bits/radio frame | 1 568 bits (alt. 688 bits) |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. | | |

6.11.5.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2a.1 Transport channel parameters

6.11.5.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.2a.1.1.

6.11.5.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2a.1.3 TFCS

See clause 6.10.3.4.4.2a.1.3.

6.11.5.4.4.2a.2 Physical channel parameters

See clause 6.11.5.4.4.2.2.

6.11.5.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2b.1 Transport channel parameters

6.11.5.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2b.1.2 TFCS

See clause 6.10.3.4.4.2b.1.2.

6.11.5.4.4.2b.2 Physical channel parameters

| | | |
|---|--------------------------------------|--|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 4 codes x 2 time slots (alt. SF16 x 2 codes x 2 time slots) |
| | Max. Number of data bits/radio frame | 688 bits (alt. 344 bits) |
| | TFCI code word / radio frame | 16 bits (alt. 8 bits) |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.88 |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. | | |

6.11.5.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3.1 Transport channel parameters

6.11.5.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.11.5.4.4.2.1.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18(alt.26) |
| TFCS | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) = (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF0, TF2), (TF1, TF0, TF2), (TF0, TF1, TF2), (TF1, TF1, TF2), (TF0, TF2, TF2), (TF1, TF2, TF2) (alt.(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF0, TF2), (TF1, TF0, TF2), (TF0, TF1, TF2), (TF1, TF1, TF2), (TF0, TF2, TF2), (TF1, TF2, TF2)) |

6.11.5.4.4.3.2 Physical channel parameters

| | | |
|---|--------------------------------------|---|
| S-CCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 5 codes x 2 time slots (alt. SF16 x 3 codes x 2 time slots) |
| | Max. Number of data bits/radio frame | 1 744 bits (alt. 1 040 bits) |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.48 (alt. 0.52) |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. | | |

6.11.5.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3a.1 Transport channel parameters

6.11.5.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3a.1.3 TFCS

See clause 6.10.3.4.4.3a.1.3.

6.11.5.4.4.3a.2 Physical channel parameters

| | | |
|--|--------------------------------------|--|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 4 codes x 2 time slots (alt. SF16 x 2 codes x 2 time slots) |
| | Max. Number of data bits/radio frame | 688 bits (alt. 336 bits) |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.60 (alt. 0.52) |
| NOTE: Alt. applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured. | | |

6.11.5.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.5.4.4.4.1 Transport channel parameters

6.11.5.4.4.4.1.1 Transport channel parameters of RB for CTCH

See clause 6.10.3.4.4.4.1.1.

6.11.5.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#5 | |
| | User of Radio Bearer | RRC | RRC | |
| RLC | Logical channel type | CCCH | BCCH | |
| | RLC mode | UM | TM | |
| | Payload sizes, bit | 160 | 168 | |
| | Max data rate, bps | 16 000 | 16 800 | |
| | AMD/UMD/TrD PDU header, bit | 8 | 0 | |
| MAC | MAC header, bit | 3 | 3 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 171 | | |
| | TFS | TF0, bits | 0x171 | |
| | | TF1, bits | 1x171 | |
| | | TF2, bits | 2x171 | |
| | TTI, ms | 20 | | |
| | Coding type | CC 1/3 | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI before rate matching | 1 146 | | |
| | Max number of bits/radio frame before rate matching | 573 | | |
| | RM attribute | 200 to 240 | | |

6.11.5.4.4.1.3 TFCS

See clause 6.10.3.4.4.1.3.

6.11.5.4.4.2 Physical channel parameters

| | | |
|--------|--------------------------------------|--------------------------------|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 4 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 688 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.4.5 64.8kbps RB for MTCH with 40 ms TTI

6.11.5.4.4.5.1 Transport channel parameters

6.11.5.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | MBMS | |
| RLC | Logical channel type | MTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 648 | |
| | Max data rate, bps | 64800 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 9 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 665 | |
| | TFS | TF0, bits | 0x665 |
| | | TF1, bits | 1x665 |
| | | TF2, bits | 2x665 |
| | | TF3, bits | 3x665 |
| | | TF4, bits | 4x665 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 8184 | |
| RM attribute | 160 | | |

6.11.5.4.4.5.1.2 TFCS

| | |
|-----------|--------------------------------------|
| TFCS size | 5 |
| TFCS | 64 kbps RAB =TF0, TF1, TF2, TF3, TF4 |

6.11.5.4.4.5.2 Physical channel parameters

| | | |
|--------|--------------------------------------|--------------------------------|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1392 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.68 |

6.11.5.4.4.6 129.6 kbps RB for MTCH with 40 ms TTI

6.11.5.4.4.6.1 Transport channel parameters

6.11.5.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

| | | | |
|---|----------------------|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 665 |
| | TFS | TF0, bits | 0x665 |
| | | TF1, bits | 1x665 |
| | | TF2, bits | 2x665 |
| | | TF3, bits | 3x665 |
| | | TF4, bits | 4x665 |
| | | TF5, bits | 5x665 |
| | | TF6, bits | 6x665 |
| | | TF7, bits | 7x665 |
| | TF8, bits | 8x665 | |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| Max number of bits/TTI before rate matching | | 16368 | |
| RM attribute | | 160 | |

6.11.5.4.4.6.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 9 |
| TFCS | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.11.5.4.4.6.2 Physical channel parameters

| | | |
|--------|--------------------------------------|---------------------------------|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 16 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2800 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.68 |

6.11.5.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.11.5.4.4.7.1 Transport channel parameters

6.11.5.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 259200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 665 |
| | TFS | TF0, bits | 0x665 |
| | | TF1, bits | 1x665 |
| | | TF2, bits | 2x665 |
| | | TF3, bits | 3x665 |
| | | TF4, bits | 4x665 |
| | | TF5, bits | 5x665 |
| | | TF6, bits | 6x665 |
| | | TF7, bits | 7x665 |
| | | TF8, bits | 8x665 |
| | | TF9, bits | 9x665 |
| | | TF10, bits | 10x665 |
| | | TF11, bits | 11x665 |
| | | TF12, bits | 12x665 |
| | | TF13, bits | 13x665 |
| | | TF14, bits | 14x665 |
| | | TF15, bits | 15x665 |
| | TF16, bits | 16x665 | |
| | TTI, ms | | 40 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI before rate matching | | 32724 | |
| RM attribute | | 160 | |

6.11.5.4.4.7.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.11.5.4.4.7.2 Physical channel parameters

| | | |
|--------|--------------------------------------|---------------------------------|
| SCCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 16 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 5616 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.68 |

6.11.5.4.4.8 7.6 kbps signalling RB for MCCH

6.11.5.4.4.8.1 Transport channel parameters

See clause 6.10.2.4.3.8.1.1.

6.11.5.4.4.8.1.2 TFCS

See clause 6.10.2.4.3.8.1.2.

6.11.5.4.4.8.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 1 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 270 |
| | TFCI code word / radio frame | 2 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 1 |

6.11.5.4.4.9 128kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.9.1 Transport channel parameters

6.11.5.4.4.9.1.1 Transport channel parameters for 124.4 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 128000 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 2561 |
| | TFS | TF0, bits | 0x2561 |
| | | TF1, bits | 2x2561 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 15486 |
| | Max number of bits/radio frame before rate matching | | 3872 |
| | RM attribute | | 128 |

6.11.5.4.4.9.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 124 kbps RAB =TF0, TF1, TF2 |

6.11.5.4.4.9.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF16 x 8 codes x 2 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 30566 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 0.76 |

6.11.5.4.4.10 192 kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.10.1 Transport channel parameters

6.11.5.4.4.10.1.1 Transport channel parameters for 192 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4272 |
| | Max data rate, bps | | 192000 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 2561 |
| | TFS | TF0, bits | 0x2561 |
| | | TF1, bits | 3x2561 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 23220 |
| | Max number of bits/radio frame before rate matching | | 5805 |
| | RM attribute | | 128 |

6.11.5.4.4.10.1.1 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 320 kbps RAB =TF0, TF1, TF2 |

6.11.5.4.4.10.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF16 x 8 codes x 2 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 3056 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 0.52 |

6.11.5.4.4.11 384 kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.11.1 Transport channel parameters

6.11.5.4.4.11.1.1 Transport channel parameters for 384 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 384000 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 2561 |
| | TFS | TF0, bits | 0x2561 |
| | | TF1, bits | 6x2561 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 46440 |
| | Max number of bits/radio frame before rate matching | | 11610 |
| | RM attribute | | 128 |

6.11.5.4.4.11.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 496 kbps RAB =TF0, TF1, TF2 |

6.11.5.4.4.11.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF1 x 1 codes x 2 time slots |
| | Modulation | 16QAM |
| | Max. Number of data bits/radio frame | 12272 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 1 |

6.11.5.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

6.11.5.4.4.12.1 Transport channel parameters

6.11.5.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 72 |
| | Max data rate, bps | | 7200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 80 |
| | TFS | TF0, bits | 0x80 |
| | | TF1, bits | 1x80 |
| | | TF2, bits | 2x80 |
| | | TF3, bits | 4x80 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1164 |
| | Max number of bits/radio frame before rate matching | | 291 |
| RM attribute | | 128 | |

6.11.5.4.4.12.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 4 |
| TFCS | MBMS SRB =TF0, TF1, TF2, TF3 |

6.11.5.4.4.12.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF16 x 1 code x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 248 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 0.84 |

6.11.5.4.4.13 8kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.13.1 Transport channel parameters

6.11.5.4.4.13.1.1 Transport channel parameters for 8kbps PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 328 |
| | Max data rate, bps | | 8200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 345 |
| | TFS | TF0, bits | 0x345 |
| | | TF1, bits | 1x345 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1095 |
| | Max number of bits/radio frame before rate matching | | 274 |
| RM attribute | | 128 | |

6.11.5.4.4.13.1.2 TFCS

| | |
|-----------|----------------------|
| TFCS size | 2 |
| TFCS | 8 kbps RAB =TF0, TF1 |

6.11.5.4.4.13.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF16 x 1 codes x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 248 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 0.84 |

- 6.11.5.4.4.14 64kbps RB for MBSFN MTCH with 40 ms TTI
- 6.11.5.4.4.14.1 Transport channel parameters
- 6.11.5.4.4.14.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 1336 |
| | Max data rate, bps | | 66800 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 1353 |
| | TFS | TF0, bits | 0x1353 |
| | | TF1, bits | 1x1353 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 4119 |
| | Max number of bits/radio frame before rate matching | | 2060 |
| RM attribute | | 128 | |

- 6.11.5.4.4.14.1.1 TFCS

| | |
|-----------|-----------------------|
| TFCS size | 2 |
| TFCS | 64 kbps RAB =TF0, TF1 |

- 6.11.5.4.4.14.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame | 0 bits |
| | Codes and time slots / radio frame | SF16 x 8 codes x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 2096 bits |
| | TFCI code word / radio frame | 16 |
| | Puncturing limit | 1 |

- 6.11.5.4.5 Combinations on PRACH

- 6.11.5.4.5.1 SRB for CCCH + SRBs for DCCH

- 6.11.5.4.5.1.1 Transport channel parameters

- 6.11.5.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRBs for DCCH

See clause 6.10.3.4.5.1.1.1.

- 6.11.5.4.5.1.1.2 TFCS

See clause 6.10.3.4.5.1.1.2.

- 6.11.5.4.5.1.2 Physical channel parameters

| | | |
|-------|--------------------------------------|------------------------------|
| PRACH | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 352 bits |
| | TPC / radio frame | 0 bits |
| | SS / radio frame | 0 bits |
| | Puncturing Limit | 0.88 |

6.11.5.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH

6.11.5.4.5.2.1 Transport channel parameters

6.11.5.4.5.2.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
|--------------|--|-----------------------------------|--------|--------|--------|-------------------------|------------------------|--|
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High priority | NAS_DT Low priority | |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | |
| | RLC mode | AM | TM | UM | AM | AM | AM | |
| | Payload sizes, bit | 128 | 168 | 136 | 128 | 128 | 128 | |
| | Max data rate, bps | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 | |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 26 | 2 | 26 | 26 | 26 | 26 | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS | TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/ Radio frame before rate matching | 388 | | | | | | |

6.11.5.4.5.2.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 1 |
| TFCS | 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

6.11.5.4.5.2.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

6.11.5.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.5.4.5.3.1 Transport channel parameters

6.11.5.4.5.3.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher layer | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------------|-----------------------------|-----------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|
| | User of Radio Bearer | Interactive/ Background RAB | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| RLC | Logical channel type | DTCH | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 128 | 128 | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 12 800 | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 16 | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 26 | 26 | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS | TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC ½ | | | | | | |
| | CRC, bit | 16 | | | | | | |

| | | | | | | | | |
|--------------|--|-----------------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | Interactive/ Background RAB | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/ Radio frame before rate matching | 388 | | | | | | |

6.11.5.4.5.3.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 1 |
| TFCS | 12.8 kbps PS RAB + 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

6.11.5.4.5.3.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

6.11.5.4.6 Combinations on DPCH and HS-PDSCH

6.11.5.4.6.1 Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.6.1.1 Uplink

See clause 6.11.5.4.1.23a.1.

6.11.5.4.6.1.2 Downlink

6.11.5.4.6.1.2.1 Transport channel parameters

6.11.5.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE2 | Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) NOTE2 | Alt 3 Flexible RLC + MAC-ehs (Rel-8 and later releases) NOTE2 |
|--------------|--|--|---|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 (alt. 640) | 320 (alt. 640) | Flexible up to 12000 |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 (alt. 656) | 336 (alt. 656) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/MAC-ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 5 ms | 5 ms | 5 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |

| | | | | |
|---|-------------------------------|-------------|--------------------|--------------------|
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | | |
| NOTE 2: Alternative 1 is for Rel-5 and later releases. Alternative 2 or 3 is for Rel-8 and later releases. Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |

6.11.5.4.6.1.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.11.5.4.6.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.5.4.6.1.2.2 Physical channel parameters

6.11.5.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1(Rel-5 and later releases; QPSK):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560k bps, (alt. 280 kbps) |

UE HS-DSCH Physical Layer category 2(Rel-5 and later releases; QPSK):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560kbps |

UE HS-DSCH Physical Layer category 3(Rel-5 and later releases; QPSK):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560k bps |

UE HS-DSCH Physical Layer category 4(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps, (alt. 600 kbps) |

UE HS-DSCH Physical Layer category 5(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps |

UE HS-DSCH Physical Layer category 6(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps |

UE HS-DSCH Physical Layer category 7(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps, (alt. 800kbps) |

UE HS-DSCH Physical Layer category 8(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps |

UE HS-DSCH Physical Layer category 9(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps |

UE HS-DSCH Physical Layer category 10(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.2 Mbps, (alt. 1.0 Mbps) |

UE HS-DSCH Physical Layer category 11(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.2 Mbps |

UE HS-DSCH Physical Layer category 12(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.2 Mbps |

UE HS-DSCH Physical Layer category 13(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.8 Mbps, (alt. 1.4 Mbps) |

UE HS-DSCH Physical Layer category 14(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.8 Mbps |

UE HS-DSCH Physical Layer category 15(Rel-5 and later releases; QPSK or 16QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |

| | | |
|--|---------------|----------|
| | Max Data Rate | 2.8 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 16(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2 Mbps, (alt. 1.6 Mbps) |

UE HS-DSCH Physical Layer category 17(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2 Mbps |

UE HS-DSCH Physical Layer category 18(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2 Mbps |

UE HS-DSCH Physical Layer category 19(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2 Mbps, (alt. 2.1 Mbps) |

UE HS-DSCH Physical Layer category 20(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 21(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 22(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2 Mbps, (alt. 2.1 Mbps) |

UE HS-DSCH Physical Layer category 23(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 24(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 25(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |

| | | |
|--|---------------|---------|
| | Max Data Rate | 3.2Mbps |
|--|---------------|---------|

UE HS-DSCH Physical Layer category 26(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 27(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 5.4Mbps |

UE HS-DSCH Physical Layer category 28(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.8Mbps |

UE HS-DSCH Physical Layer category 29(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 6.4Mbps |

UE HS-DSCH Physical Layer category 30(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 8.0Mbps |

6.11.5.4.6.1a Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5)

6.11.5.4.6.1a.1 Uplink

6.11.5.4.6.1a.1.1 Transport channel parameters

6.11.5.4.6.1a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps (multiframe) / PS RAB

| | | | |
|--------------|---|------------|--------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 (alt. 128) |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 (alt. 144) |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 2 124 (alt. 2 412) |
| | Max number of bits/radio frame before rate matching | | 1 062 (alt. 1 206) |
| RM attribute | | 135 to 175 | |

6.11.5.4.6.1a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

6.11.5.4.6.1a.1.1.3 TFCS

See clause 6.10.2.4.1.23d.1.1.3.

6.11.5.4.6.1a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 680bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Repetition period | 8 |
| | Repetition length | 2 |
| | Puncturing limit | 0.80 (alt. 0.72) |

6.11.5.4.6.1a.2 Downlink

6.11.5.4.6.1a.2.1 Transport channel parameters

6.11.5.4.6.1a.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.1a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.1a.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.1a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH (multiframe)

See clause 6.10.3.4.1.2a.2.1.1.

6.11.5.4.6.1a.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.6.1a.2.2 Physical channel parameters

6.11.5.4.6.1a.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2a.2.2.

6.11.5.4.6.1a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.1b Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (64QAM)

6.11.5.4.6.1b.1 Uplink

See clause 6.11.5.4.1.23a.1.

6.11.5.4.6.1b.2 Downlink

6.11.5.4.6.1b.2.1 Transport channel parameters

6.11.5.4.6.1b.2.1.1 Transport channel parameters for HS-DSCH(64QAM)

6.11.5.4.6.1b.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB(64QAM)

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE2 | Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) NOTE2 | Alt 3 Flexible RLC + MAC-ehs (Rel-8 and later releases) NOTE2 |
|---|---------------------------------------|--|---|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 (alt. 640) | 320 (alt. 640) | Flexible up to 12000 |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | AMD PDU header, bit | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 (alt. 656) | 336 (alt. 656) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/MAC-ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 5 ms | 5 ms | 5 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | | | |
| NOTE 2: Alternative 1 is for Rel-5 and later releases. Alternative 2 or 3 is for Rel-8 and later releases. Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |

6.11.5.4.6.1b.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.1b.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.11.5.4.6.1b.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.5.4.6.1b.2.2 Physical channel parameters

6.11.5.4.6.1b.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.6.1b.2.2.2 Physical channel parameters on HS-PDSCH(64QAM)

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560k bps, (alt. 280 kbps) |

UE HS-DSCH Physical Layer category 2:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560kbps |

UE HS-DSCH Physical Layer category 3:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 560k bps |

UE HS-DSCH Physical Layer category 4:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps, (alt. 600 kbps) |

UE HS-DSCH Physical Layer category 5:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps |

UE HS-DSCH Physical Layer category 6:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.1 Mbps |

UE HS-DSCH Physical Layer category 7:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps, (alt. 800kbps) |

UE HS-DSCH Physical Layer category 8:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps |

UE HS-DSCH Physical Layer category 9:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 1.6 Mbps |

UE HS-DSCH Physical Layer category 10:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.2 Mbps, (alt. 1.0 Mbps) |

UE HS-DSCH Physical Layer category 11:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |

| | | |
|--|---------------|----------|
| | Max Data Rate | 2.2 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 12:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.2 Mbps |

UE HS-DSCH Physical Layer category 13:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.8 Mbps, (alt. 1.4 Mbps) |

UE HS-DSCH Physical Layer category 14:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.8 Mbps |

UE HS-DSCH Physical Layer category 15:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.8 Mbps |

UE HS-DSCH Physical Layer category 16:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.4 Mbps, (alt. 1.6 Mbps) |

UE HS-DSCH Physical Layer category 17:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 18:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 19:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2 Mbps, (alt. 2.1 Mbps) |

UE HS-DSCH Physical Layer category 20:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2Mbps |

UE HS-DSCH Physical Layer category 21:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 3.2Mbps |

UE HS-DSCH Physical Layer category 22:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2 Mbps, (alt. 2.1 Mbps) |

UE HS-DSCH Physical Layer category 23:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8) |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

UE HS-DSCH Physical Layer category 24:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | 4.2Mbps |

6.11.5.4.6.2 Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.2.1 Uplink

See clause 6.11.5.4.1.23b.1.

6.11.5.4.6.2.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.6.2a Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)

6.11.5.4.6.2a.1 Uplink

6.11.5.4.6.2a.1.1 Transport channel parameters

6.11.5.4.6.2a.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB(multiframe)

| Higher layer | RAB/Signalling RB | RAB | |
|--------------|---|--------------------|---------------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 3x144) |
| | | TF3, bits | 3x336 (alt. 7x144) |
| | | TF4, bits | 4x336 (alt. 10x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 (alt. 4 812) | |
| | Max number of bits/radio frame before rate matching | 2 118 (alt. 2 406) | |
| | RM attribute | 130 to 170 | |

6.11.5.4.6.2a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

6.11.5.4.6.2a.1.1.3 TFCS

See clause 6.10.2.4.1.26.1.1.3.

6.11.5.4.6.2a.1.2 Physical channel parameters

| DPCH Uplink | Physical 1 | Physical 2 |
|--------------------------------------|-----------------------------|-----------------------------|
| Modulation | QPSK | QPSK |
| Codes and time slots / radio frame | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | 1 384 bits | 2 792 bits |
| TFCI code word / radio frame | 16 bits | 16 bits |
| TPC / radio frame | 2x2 bits | 2x2 bits |
| SS / radio frame | 2x2 bits | 2x2 bits |
| Repetition period | 4 | 8 |
| Repetition length | 1 | 2 |
| Puncturing limit | 0.48 (alt. 0.40) | 0.96 (alt. 0.84) |

6.11.5.4.6.2a.2 Downlink

See clause 6.11.5.4.6.1a.2.

6.11.5.4.6.3 Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.3.1 Uplink

See clause 6.10.3.4.1.23c.1.

6.11.5.4.6.3.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.6.3a Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE category] / PS RAB +UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)

6.11.5.4.6.3a.1 Uplink

6.11.5.4.6.3a.1.1 Transport channel parameters

6.11.5.4.6.3a.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB(multiframe)

| | | | |
|--------------|----------------------|----------------|---------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 7x144) |
| | | TF3, bits | 4x336 (alt. 14x144) |
| | | TF4, bits | 8x336 (alt. 20x144) |
| | TTI, ms | 20 | |
| Coding type | TC | | |
| CRC, bit | 16 | | |

| | | |
|--|---|---------------------|
| | Max number of bits/TTI after channel coding | 8 460 (alt. 9 612) |
| | Max number of bits/radio frame before rate matching | 4 230 (alt. 4 806) |
| | RM attribute | 120 to 160 |

6.11.5.4.6.3a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

6.11.5.4.6.3a.1.1.3 TFCS

See clause 6.10.2.4.1.28.1.1.3.

6.11.5.4.6.3a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF1 x 1 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2 792 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Repetition period | 8 |
| | Repetition length | 2 |
| | Puncturing limit | 0.56 (alt. (0.48)) |

6.11.5.4.6.3a.2 Downlink

See clause 6.11.5.4.6.1a.2.

6.11.5.4.6.4 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.4.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.6.4.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.6.5 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.5.1 Uplink

See clause 6.11.5.4.1.28.1.

6.11.5.4.6.5.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.6.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.6.1 Uplink

See clause 6.11.5.4.1.38c.1.

6.11.5.4.6.6.2 Downlink

6.11.5.4.6.6.2.1 Transport channel parameters

6.11.5.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.11.5.4.6.1.2.1.1.

- 6.11.5.4.6.6.2.1.2 Transport channel parameters for DCH
- 6.11.5.4.6.6.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4.2.1.1.
- 6.11.5.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
See clause 6.10.2.4.1.2.2.1.1.
- 6.11.5.4.6.6.2.1.2.3 TFCS
See clause 6.10.2.4.1.4.2.1.3.
- 6.11.5.4.6.6.2.2 Physical channel parameters
- 6.11.5.4.6.6.2.2.1 Physical channel parameters on DPCH
See clause 6.10.2.4.1.4.2.2.
- 6.11.5.4.6.6.2.2.2 Physical channel parameters on HS-PDSCH
See clause 6.11.5.4.6.1.2.2.2.
- 6.11.5.4.6.7 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6.11.5.4.6.7.1 Uplink
See clause 6.11.5.4.1.40.1.
- 6.11.5.4.6.7.2 Downlink
See clause 6.11.5.4.6.6.2.
- 6.11.5.4.6.8 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6.11.5.4.6.8.1 Uplink
See clause 6.11.5.4.1.51.1.
- 6.11.5.4.6.8.2 Downlink
- 6.11.5.4.6.8.2.1 Transport channel parameters
- 6.11.5.4.6.8.2.1.1 Transport channel parameters for HS-DSCH
See clause 6.11.5.4.6.1.2.1.1.
- 6.11.5.4.6.8.2.1.2 Transport channel parameters for DCH
- 6.11.5.4.6.8.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB
See clause 6.10.3.4.1.13.2.1.1.
- 6.11.5.4.6.8.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
See clause 6.10.2.4.1.2.2.1.1.
- 6.11.5.4.6.8.2.1.2.3 TFCS
See clause 6.10.3.4.1.13.2.1.3.
- 6.11.5.4.6.8.2.2 Physical channel parameters
- 6.11.5.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.13.2.2.

6.11.5.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.9 Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB +
Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS
RAB+UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.6.9.1 Uplink

See clause 6.11.5.4.1.57.1.

6.11.5.4.6.9.2 Downlink

6.11.5.4.6.9.2.1 Transport channel parameters

6.11.5.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.9.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.9.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.6.9.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.6.9.2.2 Physical channel parameters

6.11.5.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.10 Conversational/Speech/UL:12.2 DL:12.2kbps/CS RAB + interactive or Background /
UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + interactive or
Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + UL:3.4
DL 3.4 kbps SRB for DCCH

6.11.5.4.6.10.1 Uplink

See clause 6.11.5.4.1.38d.

6.11.5.4.6.10.2 Downlink

6.11.5.4.6.10.2.1 Transport channel parameters

6.11.5.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.10.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.10.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.10.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.10.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.6.10.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.6.10.2.2 Physical channel parameters

6.11.5.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.11 Streaming/ UL:32 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.11.1 Uplink

6.11.5.4.6.11.1.1 Transport channel parameters

6.11.5.4.6.11.1.1.1 Transport channel parameters for Streaming/ UL:32 kbps / PS RAB + UL:8 kbps / PS RAB + UL:3.4 kbps SRBs for DCCH

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|----------------|-----------------|-------------------|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 (alt. 128) | 320 (alt.128) | |
| | Max data rate, bps | 8 000 | 32 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 0 | 0 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 336 | 336(alt. 144) | |
| | TFS | TF0, bits | 0x336 | 0x336(alt. 0x144) |
| | | TF1, bits | 1x336 | 1x336(alt. 1x144) |
| | | TF2, bits | 2x336 | N/A(alt. 5x144) |
| | TTI, ms | 20 | 40(alt. 80) | |
| | Coding type | TC | TC | |
| | CRC, bit | 16 | 16 | |
| | Max number of bits/TTI after channel coding | 2124 | 1068(alt. 2412) | |
| | Max number of bits/radio frame before rate matching | 1062 | 267(alt. 302) | |
| RM attribute | 135 to 175 | 135 to 175 | | |

6.11.5.4.6.11.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.6.11.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 (alt. 18) |
| TFCS | (32kbps RAB, 8kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.5.4.6.11.1.2 Physical channel parameters

| DPCH Uplink | Modulation | QPSK |
|--|------------------------------------|--|
| | Codes and time slots / radio frame | SF4 x 1 code x 2 timeslots +SF8 x 1 code x 2 timeslot |
| Max. Number of data bits / radio frame | 1032 bits | |
| TFCI code word / radio frame | 16 bits | |
| TPC / radio frame | 2x2 bits | |
| SS / radio frame | 2x2 bits | |
| Puncturing Limit | 0.68 | |

6.11.5.4.6.11.2 Downlink

See clause 6.11.5.4.6.9.2.

6.11.5.4.6.12 Streaming/ UL:16 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.12.1 Uplink

See clause 6.11.5.4.1.58.1.

6.11.5.4.6.12.2 Downlink

See clause 6.11.5.4.6.9.2.

6.11.5.4.6.13 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + interactive or Background/ UL:384 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.13.1 Uplink

6.11.5.4.6.13.1.1 Transport channel parameters

6.11.5.4.6.13.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.13.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.6.13.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.6.13.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 36 (alt. 54) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |

| | |
|--|---|
| | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
|--|---|

6.11.5.4.6.13.1.2 Physical channel parameters

| | | |
|-------------|--|---|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF1 x 1 code x 6 time slots+ SF8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 8776 bits |
| | TFCl code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.6.13.2 Downlink

See clause 6.11.5.4.6.6.2.

6.11.5.4.6.14 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:16 kbps
 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps
 DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.14.1 Uplink

See clause 6.11.5.4.1.67.1.

6.11.5.4.6.14.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.15 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:32 kbps
 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps
 DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.15.1 Uplink

6.11.5.4.6.15.1.1 Transport channel parameters

6.11.5.4.6.15.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.15.1.1.2 Transport channel parameters for Streaming / unknown / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.6.15.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.6.15.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.6.15.1.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0),(TF2,TF1,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0),(TF2,TF1,TF1,TF2,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0),(TF2,TF1,TF1,TF2,TF1,TF0), (TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1),(TF2,TF1,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1),(TF2,TF1,TF1,TF2,TF0,TF1), (TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1),(TF2,TF1,TF1,TF2,TF1,TF1) |

6.11.5.4.6.15.1.2 Physical channel parameters

| | | |
|-------------|--|-----------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 1384 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.6.15.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.16 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.16.1 Uplink

6.11.5.4.6.16.1.1 Transport channel parameters

6.11.5.4.6.16.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.16.1.1.2 Transport channel parameters for Streaming / unknown / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.6.16.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.6.16.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.6.16.1.1.5 TFCS

| | |
|-----------|--|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |

6.11.5.4.6.16.1.2 Physical channel parameters

| | | |
|-------------|--|---|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / frame | SF2 x 1 code x 2 time slots+ SF4 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 2028 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.52 |

6.11.5.4.6.16.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.17 Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.17.1 Uplink

See clause 6.11.5.4.1.51a.1.

6.11.5.4.6.17.2 Downlink

See clause 6.11.5.4.6.9.2.

6.11.5.4.7 Combinations on HS-PDSCH and E-PUCH

6.11.5.4.7.1 Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.7.1.1 Uplink

6.11.5.4.7.1.1.1 Transport channel parameters

6.11.5.4.7.1.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.1.1.1.1 MAC-d flow parameters for Stand-alone UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-7 and later) NOTE 1 | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 1 | Alt 3 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 1 |
|--|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | AM | | |
| | Payload sizes, bit | 320 | 320 | Flexible from 80 up to 12000 (NOTE 2) |
| | Max data rate, bps | Depends on UE category and TTI | | |
| | AMD PDU header, bit | 16 | | |
| MAC | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 | 336 | Flexible from 96 up to 12016 |
| | MAC type | MAC-e/es | MAC-i/is | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 | 24 |
| Layer 1 | TrCH type | E-DCH | | |
| | TTI | 5ms | | |
| | Coding type | TC | | |
| | CRC, bit | 24 | | |
| NOTE 1: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | | |
| NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

6.11.5.4.7.1.1.2 Physical channel parameters

6.11.5.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-PUCH Physical Layer category 1(Rel-7 and later releases; QPSK):

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5 ms |
| | Max Data Rate | 0.5508 Mbps |

UE E-PUCH Physical Layer category 2 (Rel-7 and later releases; QPSK):

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5ms |
| | Max Data Rate | 0.8324 Mbps |

UE E-PUCH Physical Layer category 3 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5 ms |
| | Max Data Rate | 1.1064 Mbps |

UE E-PUCH Physical Layer category 4 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5 ms |
| | Max Data Rate | 1.6696 Mbps |

UE E-PUCH Physical Layer category 5 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5 ms |
| | Max Data Rate | 2.232 Mbps |

UE E-PUCH Physical Layer category 6 (Rel-7 and later releases; QPSK or 16QAM):

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | TTI | 5 ms |
| | Max Data Rate | 2.232 Mbps |

6.11.5.4.7.1.2 Downlink

6.11.5.4.7.1.2.1 Transport channel parameters

6.11.5.4.7.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.1.2.1.1.1 MAC-d flow parameters for Stand-alone DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE | | | | Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) NOTE | | | |
|---|---|---|-------|-------|-------|--|-------|-------|-------|
| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category and TTI | | | | | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 | 8 | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | | 4 logical channel multiplexing | | | |
| | MAC-d PDU size, bit | 148 | | | | 148 | | | |
| | MAC type | MAC-hs | | | | MAC-ehs | | | |
| | MAC-hs / MAC-ehs header fixed part, bit | 18 | | | | 24 | | | |
| Layer 1 | TrCH type | HS-DCH | | | | HS-DCH | | | |
| | TTI | 5ms | | | | 5ms | | | |
| | Coding type | TC | | | | TC | | | |
| | CRC, bit | 24 | | | | 24 | | | |
| NOTE : Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | | | | | | | |

6.11.5.4.7.1.2.2 Physical channel parameters

6.11.5.4.7.1.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.2.1 Uplink

- 6.11.5.4.7.2.1.1 Transport channel parameters
- 6.11.5.4.7.2.1.1.1 Transport channel parameters for E-DCH
- 6.11.5.4.7.2.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.5.4.7.1.1.1.1.1.
- 6.11.5.4.7.2.1.1.2 Transport channel parameters for DCH
- 6.11.5.4.7.2.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH
- See clause 6.11.5.4.1.2.1.1.1.
- 6.11.5.4.7.2.1.2 Physical channel parameters
- 6.11.5.4.7.2.1.2.1 Physical channel parameters on E-PUCH
- See clause 6.11.5.4.7.1.1.2.1.
- 6.11.5.4.7.2.1.2.2 Physical channel parameters for DPCH
- See clause 6.11.5.4.1.2.1.2
- 6.11.5.4.7.2.2 Downlink
- See clause 6.11.5.4.6.1.2.
- 6.11.5.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 6.11.5.4.7.3.1 Uplink
- 6.11.5.4.7.3.1.1 Transport channel parameters
- 6.11.5.4.7.3.1.1.1 Transport channel parameters for E-DCH
- 6.11.5.4.7.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.5.4.7.1.1.1.1.1.
- 6.11.5.4.7.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

| | | Alt 1 Fixed RLC + MAC-e/es (Rel-6 and later releases) NOTE | | | | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE | | | |
|--------------|--|---|-------|-------|-------|---|-------|-------|-------|
| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category and TTI | | | | | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 | 8 | 16 | 16 | 16 |
| MAC | MAC-es multiplexing | 4 logical channel multiplexing | | | | 4 logical channel multiplexing | | | |
| | MAC-d PDU size, bit | 144 | | | | 144 | | | |
| | MAC type | MAC-e/es | | | | MAC-i/is | | | |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | | | | 24 | | | |
| Layer 1 | TrCH type | E-DCH | | | | E-DCH | | | |
| | TTI | 5ms | | | | 5ms | | | |
| | Coding type | TC | | | | TC | | | |
| | CRC, bit | 24 | | | | 24 | | | |

| |
|---|
| NOTE : Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. |
|---|

6.11.5.4.7.3.1.2 Physical channel parameters

6.11.5.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.3.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.7.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.7.4.1 Uplink

See clause 6.11.5.4.7.1.1.

6.11.5.4.7.4.1.2 Physical channel parameters

6.11.5.4.7.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.4.2 Downlink

6.11.5.4.7.4.2.1 Transport channel parameters

6.11.5.4.7.4.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.7.4.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.1.2.1.1.1

6.11.5.4.7.4.2.2 Physical channel parameters

6.11.5.4.7.4.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.5.1 Uplink

6.11.5.4.7.5.1.1 Transport channel parameters

6.11.5.4.7.5.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.5.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.1.

6.11.5.4.7.5.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.5.4.1.4.1.1.1.

6.11.5.4.7.5.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.5.1.1.4 TFCS

See clause 6.11.5.4.1.4.1.1.3.

6.11.5.4.7.5.1.2 Physical channel parameters

6.11.5.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.5.1.2.2 Physical channel parameters on DCH

See clause 6.11.5.4.1.4.1.2.

6.11.5.4.7.5.2 Downlink

See clause 6.11.5.4.6.6.2.

6.11.5.4.7.6 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.6.1 Uplink

6.11.5.4.7.6.1.1 Transport channel parameters

6.11.5.4.7.6.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.6.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | Depends on UE category and TTI |
| | UMD PDU header, bit | 8 |
| MAC | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-e/es header fixed part, bit | 18 |
| Layer 1 | TrCH type | E-DCH |
| | TTI | 5ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.5.4.7.6.1.1.2 Transport channel parameters for DCH

6.11.5.4.7.6.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.6.1.2 Physical channel parameters

6.11.5.4.7.6.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.6.1.2.2 Physical channel parameters for DPCH

See clause 6.11.5.4.1.2.1.2

6.11.5.4.7.6.2 Downlink

6.11.5.4.7.6.2.1 Transport channel parameters

6.11.5.4.7.6.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.6.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|---|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | Depends on UE category and TTI |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-e/es header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 5ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | |

6.11.5.4.7.6.2.1.2 Transport channel parameters for DCH

6.11.5.4.7.6.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.2.1.1.

6.11.5.4.7.6.2.1.2.2 TFCS

See clause 6.11.5.4.1.2.2.1.2.

6.11.5.4.7.6.2.2 Physical channel parameters

6.11.5.4.7.6.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.7.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.7 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + UL:[max bit rate depending on UE category and TTI] DL: 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.11.5.4.7.7.1 Uplink

6.11.5.4.7.7.1.1 Transport channel parameters

6.11.5.4.7.7.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.7.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.7.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.7.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.7.1.2 Physical channel parameters

6.11.5.4.7.7.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.7.2 Downlink

6.11.5.4.7.7.2.1 Transport channel parameters

6.11.5.4.7.7.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.7.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.7.6.2.1.1.1.

6.11.5.4.7.7.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.7.6.2.1.1.1.

6.11.5.4.7.7.2.1.2 Transport channel parameters for DCH

6.11.5.4.7.7.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.2.1.1.

6.11.5.4.7.7.2.1.2.2 TFCS

See clause 6.11.5.4.1.2.2.1.2.

6.11.5.4.7.7.2.2 Physical channel parameters

6.11.5.4.7.7.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.7.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.8 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.8.1 Uplink

See clause 6.11.5.4.7.2.1.

6.11.5.4.7.8.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.7.9 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.9.1 Uplink

See clause 6.11.5.4.7.2.1.

6.11.5.4.7.9.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.7.10 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.10.1 Uplink

See clause 6.11.5.4.7.2.1.

6.11.5.4.7.10.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.7.11 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.11.1 Uplink

See clause 6.11.5.4.7.2.1.

6.11.5.4.7.11.2 Downlink

See clause 6.11.5.4.1.23d.2.

6.11.5.4.7.12 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.12.1 Uplink

6.11.5.4.7.12.1.1 Transport channel parameters

6.11.5.4.7.12.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.12.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.12.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.12.1.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.12.1.2 Physical channel parameters

6.11.5.4.7.12.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.12.1.2.2 Physical channel parameters for DPCH

See clause 6.11.5.4.1.2.1.2

6.11.5.4.7.12.2 Downlink

See clause 6.11.5.4.1.57.2.

6.11.5.4.7.13 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.13.1 Uplink

See clause 6.11.5.4.7.5.1.

6.11.5.4.7.13.2 Downlink

See clause 6.11.5.4.1.43.2.

6.11.5.4.7.14 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.14.1 Uplink

See clause 6.11.5.4.7.5.1.

6.11.5.4.7.14.2 Downlink

See clause 6.11.5.4.1.39.2.

6.11.5.4.7.15 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.15.1 Uplink

6.11.5.4.7.15.1.1 Transport channel parameters

6.11.5.4.7.15.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.15.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.15.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.15.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.5.4.1.4.1.1.1.

6.11.5.4.7.15.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.15.1.1.4 TFCS

See clause 6.11.5.4.1.4.1.1.3.

6.11.5.4.7.15.1.2 Physical channel parameters

6.11.5.4.7.15.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.15.1.2.2 Physical channel parameters on DPCH

See clause 6.11.5.4.1.4.1.2.

6.11.5.4.7.15.2 Downlink

See clause 6.11.5.4.1.38d.2.

6.11.5.4.7.16 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.16.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.16.2 Downlink

See clause 6.11.5.4.1.67.2.

6.11.5.4.7.17 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.17.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.17.2 Downlink

6.11.5.4.7.17.2.1 Transport channel parameters

6.11.5.4.7.17.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.7.17.2.1.2 Transport channel parameters for Streaming or interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.7.17.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.7.17.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.7.17.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB , 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.5.4.7.17.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1384 bits |
| | TFCI code word / radio frame | 16 bits |

| | | |
|--|-------------------|----------|
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.7.18 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.18.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.18.2 Downlink

6.11.5.4.7.18.2.1 Transport channel parameters

6.11.5.4.7.18.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.7.18.2.1.2 Transport channel parameters for Streaming or interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.7.18.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.7.18.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.7.18.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB , 8 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.5.4.7.18.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 16 x 6 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 1032 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.56 |

6.11.5.4.7.19 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit

rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.19.1 Uplink

See clause 6.11.5.4.7.12.1.

6.11.5.4.7.19.2 Downlink

See clause 6.11.5.4.1.58.2.

6.11.5.4.7.20 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.20.1 Uplink

See clause 6.11.5.4.7.12.1.

6.11.5.4.7.20.2 Downlink

See clause 6.11.5.4.1.63.2.

6.11.5.4.7.21 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.21.1 Uplink

See clause 6.11.5.4.7.12.1.

6.11.5.4.7.21.2 Downlink

6.11.5.4.7.21.2.1 Transport channel parameters

6.11.5.4.7.21.2.1.1 Transport channel parameters for Streaming or interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.7.21.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.7.21.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.7.21.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (16 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.5.4.7.21.2.2 Physical channel parameters

| | | |
|---------------|--|------------------------------|
| DPCH Downlink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF16 x 4 code x 2 time slots |
| | Max. Number of data bits / radio frame | 680 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |

| | | |
|--|------------------|----------|
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.60 |

6.11.5.4.7.22 Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.7.22.1 Uplink

6.11.5.4.7.22.1.1 Transport channel parameters

6.11.5.4.7.22.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.22.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE 2 | Alt 2 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE 1 |
|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | |
| PDCP | PDCP header size, bit | 0 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 336 (alt 328) | Flexible from 88 up to 12000 (NOTE 2) |
| | Max data rate, bps | Depends on UE category and TTI | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC multiplexing | N/A | |
| | MAC-d PDU size, bit | 96, 112, 144, 160, 176, 192, 208, 224, 288, 296, 312, 344 (alt 336) | Flexible from 96 up to 12008 |
| | MAC type | MAC-e/es | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 |
| Layer 1 | TrCH type | E-DCH | |
| | TTI | 5ms | |
| | Coding type | TC | |
| | CRC, bit | 24 | |
| NOTE 1: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | |
| NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | |

6.11.5.4.7.22.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.

6.11.5.4.7.22.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.22.1.2 Physical channel parameters

6.11.5.4.7.22.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.22.2 Downlink

6.11.5.4.7.22.2.1 Transport channel parameters

6.11.5.4.7.22.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.22.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

| | | Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2 | Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 | Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2 |
|--|-----------------------------------|---|--|---|
| Higher Layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | UM | | |
| | Payload sizes, bit | 104, 136, 152, 168, 184, 216, 288, 336 (alt 328) | 104, 136, 152, 168, 184, 216, 288, 336 (alt 328) | Flexible up to 12000 (NOTE 3) |
| | Max data rate, bps | depends on UE category NOTE 1 | | |
| | UMD PDU header, bit | 8 | 8 | 8 |
| MAC | MAC-d header, bit | 0 | 0 | 0 |
| | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 112 , 144, 160, 176, 192, 224, 296, 344 (alt 336) | 112 , 144, 160, 176, 192, 224, 296, 344 (alt 336) | Flexible |
| | MAC-hs Type | MAC-hs | MAC-ehs | MAC-ehs |
| | MAC-hs/ehs header fixed part, bit | 21 | 24 | 24 |
| Layer 1 | TrCH type | HS-DSCH | HS-DSCH | HS-DSCH |
| | TTI | 5 ms | 5 ms | 5 ms |
| | Coding type | TC | TC | TC |
| | CRC, bit | 24 | 24 | 24 |
| | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
| | Applicable with MIMO | No | Yes | Yes |
| | Applicable with Dual-Cell HSDPA | No | Yes | Yes |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | | | |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. | | | | |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. | | | | |

6.11.5.4.7.22.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.7.22.2.1.1.3 MAC-d flow#3 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.1.2.1.1.1.

6.11.5.4.7.22.2.2 Physical channel parameters

6.11.5.4.7.22.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.8 Reference Radio Bearer configurations used in MAC-ehs testing

6.11.5.4.8.1 3 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

6.11.5.4.8.1.1 Uplink

6.11.5.4.8.1.1.1 Uplink Transport channel parameters for DCH

6.11.5.4.8.1.1.1.1 Transport channel parameters for 3 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 | RB7 |
|--------------|---|--------------------------------|-------|-------|
| RLC | Logical channel type | DTCH | DTCH | DTCH |
| | RLC mode | UM | UM | UM |
| | Payload sizes, bit | 328 | 328 | 320 |
| | Max data rate, bps | 8 200 | 8 200 | 8 000 |
| | UMD/AMD PDU header, bit | 8 | 8 | 8 |
| MAC | MAC header, bit | 4 | 4 | 4 |
| | MAC multiplexing | 3 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | | |
| | RM attribute | 135 to 175 | | |

6.11.5.4.8.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.8.1.1.1.3 Uplink TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (5x8 kbps PS RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.5.4.8.1.1.2 Uplink physical channel parameters

| DPCH Uplink | Modulation | QPSK |
|-------------|--|------------------------------|
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.68) |

6.11.5.4.8.1.2 Downlink

6.11.5.4.8.1.2.1 Transport channel parameters for HS-DSCH

6.11.5.4.8.1.2.1.1 parameters for 3 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB5 | RB6 | RB7 |
|--------------|----------------------|------------------------|------|------|
| RLC | Logical channel type | DTCH | DTCH | DTCH |
| | RLC mode | UM | UM | UM |
| | Payload sizes, bit | 328 | 328 | 328 |
| | Max data rate, bps | depends on UE category | | |
| | UMD PDU header, bit | 8 | 8 | 8 |
| MAC-d | MAC-d header, bit | None | | |
| | MAC multiplexing | None | | |
| | MAC-d PDU size, bit | 336 | | |

6.11.5.4.8.1.2.1.2 MAC-ehs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|---------|--------------------------------|---------|
| MAC-ehs | MAC-ehs header fixed part, bit | FFS |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 5 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.5.4.8.1.2.2 Downlink Transport channel parameters for DCH

6.11.5.4.8.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.8.1.2.2.2 Downlink TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.11.5.4.8.1.2.3 Downlink physical channel parameters

6.11.5.4.8.1.2.3.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.8.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | Depending on UE category |

6.11.5.4.8.2 1 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

6.11.5.4.8.2.1 Uplink

6.11.5.4.8.2.1.1 Uplink Transport channel parameters for DCH

6.11.5.4.8.2.1.1.1 Transport channel parameters for 1 x Interactive or background / UL:8 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RB5 | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 328 | |
| | Max data rate, bps | 8 200 | |
| | UMD/AMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 080 | |
| | Uplink: Max number of bits/radio frame before rate matching | 270 | |
| | RM attribute | 135 to 175 | |

6.11.5.4.8.2.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.8.2.1.1.3 Uplink TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps PS RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.11.5.4.8.2.1.2 Uplink physical channel parameters

| | | |
|-------------|--|------------------------------|
| DPCH Uplink | Modulation | QPSK |
| | Codes and time slots / radio frame | SF 8 x 1 code x 2 time slots |
| | Max. Number of data bits / radio frame | 328 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2x2 bits |
| | SS / radio frame | 2x2 bits |
| | Puncturing Limit | 0.72 (alt 0.68) |

6.11.5.4.8.2.2 Downlink

6.11.5.4.8.2.2.1 Transport channel parameters for HS-DSCH

6.11.5.4.8.2.2.1.1 parameters for 1 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB | RB5 |
|--------------|--------------------------------|------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | depends on UE category |
| | UMD PDU header, bit | 8 |
| MAC-d | MAC-d header, bit | None |
| | MAC multiplexing | None |
| | MAC-d PDU size, bit | 336 |
| MAC-ehs | MAC-ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 2 ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.5.4.8.2.2.2 Downlink Transport channel parameters for DCH

6.11.5.4.8.2.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.8.2.2.2.2 Downlink TFCS

| | |
|-----------|--------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = TF0, TF1 |

6.11.5.4.8.2.2.3 Downlink physical channel parameters

6.11.5.4.8.2.2.3.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.8.2.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

| | | |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2 |
| | Process memory size | Split equally among all processes |
| | Max Data Rate | Depending on UE category |

6.11.5.4.9 Reference Radio Bearer configurations used in Improved L2 UL testing

6.11.5.4.9.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.9.1.1 Uplink

6.11.5.4.9.1.1.1 Transport channel parameters

6.11.5.4.9.1.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.9.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | Alt 1 Fixed RLC + MAC- e/es (Rel-6 and later) NOTE | Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE | Alt 3 Flexible RLC + MAC- i/is (Rel-8 and later releases) NOTE |
|--|--|---|--|--|
| Higher layer | RAB/Signalling RB | RAB | | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | UM | | |
| | Payload sizes, bit | 328 | 328 | Flexible up to 12000 |
| | Max data rate, bps | Depends on UE category and TTI | | |
| | UMD PDU header, bit | 8 | | |
| MAC | MAC multiplexing | N/A | N/A | N/A |
| | MAC-d PDU size, bit | 336 | 336 | Flexible |
| | MAC type | MAC-e/es | MAC-i/is | MAC-i/is |
| | MAC-e/es / MAC-i/is header fixed part, bit | 18 | 24 | 24 |
| Layer 1 | TrCH type | E-DCH | | |
| | TTI | 5ms | | |
| | Coding type | TC | | |
| | CRC, bit | 24 | | |
| NOTE : Alternative 3 with Flexible RLC + MAC-i/is is the default configuration. For test cases that use alternatives 1 (Fixed RLC + MAC-e/es) or 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. | | | | |

6.11.5.4.9.1.1.1.1.2 Transport channel parameters for DCH

6.11.5.4.9.1.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

6.11.5.4.9.1.1.2 Physical channel parameters

6.11.5.4.9.1.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1

6.11.5.4.9.1.1.2.2 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.1.2

6.11.5.4.9.1.2 Downlink

6.11.5.4.9.1.2.1 Transport channel parameters

6.11.5.4.9.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.9.1.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |

| | | |
|--|--------------------------------|---------------------------------|
| | Payload sizes, bit | Flexible up to 12000 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | UMD PDU header, bit | 8 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | Flexible |
| | MAC-ehs header fixed part, bit | 24 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 5 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]). | | |

6.11.5.4.9.1.2.1.2 Transport channel parameters for DCH

6.11.5.4.9.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.9.1.2.2 Physical channel parameters

6.11.5.4.9.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.9.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.9.2.1 Uplink

6.11.5.4.9.2.1.1 Transport channel parameters

6.11.5.4.9.2.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.9.2.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2, alt 2

6.11.5.4.9.2.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3

6.11.5.4.9.2.1.2 Physical channel parameters

6.11.5.4.9.2.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1

- 6.11.5.4.9.2.2 Downlink
- 6.11.5.4.9.2.2.1 Transport channel parameters
- 6.11.5.4.9.2.2.1.1 Transport channel parameters for HS-DSCH
- 6.11.5.4.9.2.2.1.1.1 MAC-d flow#0 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.5.4.9.1.2.1.1.1
- 6.11.5.4.9.2.2.1.1.2 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH
- See clause 6.11.5.4.6.1.2.1.1.1, alt 2.
- 6.11.5.4.9.2.2.2 Physical channel parameters
- 6.11.5.4.9.2.2.2.1 Physical channel parameters on DPCH
- See clause 6.11.5.4.1.2.2.2.
- 6.11.5.4.9.2.2.2.2 Physical channel parameters on HS-PDSCH
- See clause 6.11.5.4.6.1.2.2.2.
- 6.11.5.4.9.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-ehs SRBs for DCCH on E-DCH and HS-DSCH
- 6.11.5.4.9.3.1 Uplink
- 6.11.5.4.9.3.1.1 Transport channel parameters
- 6.11.5.4.9.3.1.1.1 Transport channel parameters for E-DCH
- 6.11.5.4.9.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.5.4.9.1.1.1.1.1, alt 3.
- 6.11.5.4.9.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH
- See clause 6.11.5.4.7.3.1.1.1.2, alt 2.
- 6.11.5.4.9.3.2.1.2 Physical channel parameters
- 6.11.5.4.9.3.2.1.2.1 Physical channel parameters on E-PUCH
- See clause 6.11.5.4.7.1.1.2.1.
- 6.11.5.4.9.3.2.2 Downlink
- 6.11.5.4.9.3.2.2.1 Transport channel parameters
- 6.11.5.4.9.3.2.2.1.1 Transport channel parameters for HS-DSCH
- 6.11.5.4.9.3.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB
- See clause 6.11.5.4.6.1.2.1.1.1, alt 3
- 6.11.5.4.9.3.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.4.2.1.1.2, alt 2.

6.11.5.4.9.3.2.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.3.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.9.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.11.5.4.9.4.1 Uplink

6.11.5.4.9.4.1.1 Transport channel parameters

6.11.5.4.9.4.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.9.4.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2, alt 2.

6.11.5.4.9.4.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

6.11.5.4.9.4.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

6.11.5.4.9.4.1.1.1.4 MAC-d flow#4 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

6.11.5.4.9.4.1.2 Physical channel parameters

6.11.5.4.9.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.9.4.2 Downlink

6.11.5.4.9.4.2.1 Transport channel parameters

6.11.5.4.9.4.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.9.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

6.11.5.4.9.4.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

6.11.5.4.9.4.2.1.1.2 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

6.11.5.4.9.4.2.1.2 Transport channel parameters for DCH

6.11.5.4.9.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.9.4.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2

6.11.5.4.9.4.2.2 Physical channel parameters

6.11.5.4.9.4.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.6 Reference Radio Bearer configurations used in Radio Bearer testing for 7.68 Mcps TDD

6.11.6.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

Table 6.11.6.1.1: Prioritized RABs

| # | Traffic class ^[3] | SSD ^[3] | Max. rate, kbps | CS/PS |
|-----|------------------------------|--------------------|--|-------|
| 1 | Conversational | Speech | UL:12.2 DL:12.2 | CS |
| 1a | Conversational | Speech | UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) | CS |
| 2 | Conversational | Speech | UL:10.2 DL:10.2 | CS |
| 2a | Conversational | Speech | UL:(10.2 , 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) | CS |
| 3 | Conversational | Speech | UL:7.95 DL:7.95 | CS |
| 4 | Conversational | Speech | UL:7.4 DL:7.4 | CS |
| 4a | Conversational | Speech | UL:(12.2 7.95 5.9 4.75, DL:(12.2 7.95 5.9 4.75) | CS |
| 5 | Conversational | Speech | UL:6.7 DL:6.7 | CS |
| 6 | Conversational | Speech | UL:5.9 DL:5.9 | CS |
| 7 | Conversational | Speech | UL:5.15 DL:5.15 | CS |
| 8 | Conversational | Speech | UL:4.75 DL:4.75 | CS |
| 9 | Conversational | Unknown | UL:28.8 DL:28.8 | CS |
| 10 | Conversational | Unknown | UL:64 DL:64 | CS |
| 11 | Conversational | Unknown | UL:32 DL:32 | CS |
| 11a | Conversational | Unknown | UL:8 DL:8 | CS |
| 12 | Streaming | Unknown | UL:14.4 DL:14.4 | CS |
| 13 | Streaming | Unknown | UL:28.8 DL:28.8 | CS |
| 14 | Streaming | Unknown | UL:57.6 DL:57.6 | CS |
| 15 | Void | | | |
| 15a | Streaming | Unknown | UL:16 DL:64 | PS |
| 16 | Void | | | |
| 17 | Void | | | |
| 18 | Void | | | |
| 19 | Void | | | |
| 20 | Interactive or Background | N/A | UL:32 DL:8 | PS |
| 20a | Interactive or Background | N/A | UL:8 DL:8 | PS |

| # | Traffic class ^[3] | SSD ^[3] | Max. rate, kbps | CS/PS |
|-----|------------------------------|--------------------|-----------------|-------|
| 20b | Interactive or Background | N/A | UL:16 DL:16 | PS |
| 20c | Interactive or Background | N/A | UL:32 DL:32 | PS |
| 21 | Void | | | |
| 22 | Interactive or Background | N/A | UL:32 DL:64 | PS |
| 23 | Interactive or Background | N/A | UL:64 DL:64 | PS |
| 24 | Interactive or Background | N/A | UL:64 DL:128 | PS |
| 25 | Interactive or Background | N/A | UL:128 DL:128 | PS |
| 26 | Interactive or Background | N/A | UL:64 DL:384 | PS |
| 27 | Interactive or Background | N/A | UL:128 DL:384 | PS |
| 28 | Interactive or Background | N/A | UL:384 DL:384 | PS |
| 29 | Interactive or Background | N/A | UL:64 DL:2048 | PS |
| 30 | Interactive or Background | N/A | UL:128 DL:2048 | PS |
| 31 | Void | | | |
| 32 | Interactive or Background | N/A | UL:64 DL:256 | PS |
| 33 | Interactive or Background | N/A | UL:0 DL:32 | PS |
| 34 | Interactive or Background | N/A | UL:32 DL:0 | PS |
| 35 | Interactive or Background | N/A | UL:64 DL:144 | PS |
| 36 | Interactive or Background | N/A | UL:144 DL:144 | PS |

Table 6.11.6.1.2: Signalling RBs

| # | Maximum rate, kbps | Logical channel | PhyCh onto which SRBs are mapped |
|----|---------------------|-----------------|----------------------------------|
| 1 | UL:1.7 DL:1.7 | DCCH | DPCH |
| 2 | UL:3.4 DL:3.4 | DCCH | DPCH |
| 3 | UL:13.6 DL:13.6 | DCCH | DPCH |
| 4 | DL:27.2 (alt. 13.6) | DCCH | SCCPCH |
| 5 | UL:16.8 | CCCH | PRACH |
| 6 | DL:32 (alt. 16) | CCCH | SCCPCH |
| 7 | DL:33.6 (alt. 16.8) | BCCH | SCCPCH |
| 8 | DL:12 (alt. 8) | PCCH | SCCPCH |
| 9 | UL:16.8 | SHCCH | PRACH |
| 10 | UL:16.8 | SHCCH | PRACH or PUSCH |
| 11 | DL:32 (alt. 16) | SHCCH | SCCPCH |
| 12 | DL:16 | SHCCH | SCCPCH or PDSCH |

6.11.6.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..

- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background/ UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:0 DL:0 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:32 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL: 3.4/16.8 DL:3.4/ 33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2 048 kbps / PS RAB
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:16.8 kbps SRBs for CCCH and SHCCH
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
+ Interactive or background / UL:64 DL:384 kbps / PS RAB

- + UL:16.8 kbps SRBs for CCCH and SHCCH
- + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:2 048 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB
 - + SRBs for CCCH
 - + SRB for DCCH
 - + SRB for BCCH
- 2b) SRBs for CCCH
 - + SRB for DCCH
 - + SRB for BCCH
- 3) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for PCCH
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.
- 3a) SRB for PCCH
 - + SRB for CCCH
 - + SRB for DCCH
 - + SRB for BCCH
- 4) RB for CTCH
 - + SRB for CCCH
 - + SRB for BCCH

Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH.

Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 6) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 10) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 11) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.6.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.11.6.3.1.

Table 6.11.6.3.1: Example of linkage between RABs and services

| Traffic class ^[3] | RAB | | | Residual BER ^[3] | Services |
|------------------------------|--------------------|------------------------------|-------|--|--|
| | SSD ^[3] | Max. rate, kbps | CS/PS | | |
| Conversational | Speech | UL:4.75-12.2 DL:4.75-12.2 | CS | 5×10^{-4} , 1×10^{-3} , 5×10^{-3} | AMR speech |
| Conversational | Unknown | UL:64 DL:64 | CS | 1×10^{-4} or 1×10^{-6} | UDI 1B, 64k 3G-324M ^[4] |
| Conversational | Unknown | UL:32 DL:32 | CS | 1×10^{-4} or 1×10^{-6} | 32k 3G-324M ^[4] |
| Conversational | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | Transparent modem |
| Streaming | Unknown | UL:14.4 DL:14.4 | CS | 1×10^{-3} | FAX ^[6] |
| Streaming | Unknown | UL:28.8 DL:28.8 | CS | 1×10^{-3} | FAX ^[6] PIAFS 32 kbps |
| Streaming | Unknown | UL:57.6 DL:57.6 | CS | 1×10^{-3} | Modem ^[6] , FTM ^[5] , PIAFS 64 kbps |
| Streaming | Unknown | UL:64-128 or DL:64-384 | CS | 1×10^{-3} or 1×10^{-4} | Streaming video, unidirectional |
| Interactive or Background | N/A | UL:32-384 DL:8-2048 | PS | 1×10^{-3} or 1×10^{-4} | Packet |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH

NOTE 3: UDI *n*B can be provided via *n* RABs of conversational 64 kbps.

6.11.6.4 Typical radio parameter sets

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

6.11.6.4.1 Combinations on DPCH

6.11.6.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.6.4.1.1.1 Uplink

6.11.6.4.1.1.1.1 Transport channel parameters

6.11.6.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 80 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 65 | | | |
| RM attribute | 155 to 185 | | | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN.

6.11.6.4.1.1.1.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |

NOTE: The first TFC is required for the alt. case, optional otherwise.

6.11.6.4.1.1.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 234 |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 1 |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.11.6.4.1.1.2 Downlink

6.11.6.4.1.1.2.1 Transport channel parameters

6.11.6.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|-------------------------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |

| | | | |
|---|---|-----------|--------------------------|
| | TFS | TF0, bits | 0 x148 (alt. 1x0) (note) |
| | | TF1, bits | 1x148 |
| | TTI, ms | | 80 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 516 |
| | Max number of bits/radio frame before rate matching | | 65 |
| | RM attribute | | 155 to 185 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | | |

6.11.6.4.1.1.2.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.11.6.4.1.1.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 236 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.11.6.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.11.6.4.1.1a.1 Uplink

6.11.6.4.1.1a.1.1 Transport channel parameters

6.11.6.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|--------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 | | | |
| | TFS | TF0, bits | 0x148 | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | | 20 | | |
| | Coding type | | CC 1/3 | | |
| | CRC, bit | | 16 | | |
| | Max number of bits/TTI before rate matching | | 516 | | |
| | Max number of bits/radio frame before rate matching | | 258 | | |

6.11.6.4.1.1a.1.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |

6.11.6.4.1.1a.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 266 |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 1 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.11.6.4.1.1a.2 Downlink

6.11.6.4.1.1a.2.1 Transport channel parameters

6.11.6.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------------|---|--------------------------------|--------|-------------------------|------------------------|
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 1 700 | 1 600 | 1 600 | 1 600 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 | | | |
| | TFS | TF0, bits | 0 x148 | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 20 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 258 | | | |

6.11.6.4.1.1a.2.1.2 TFCS

| | |
|----------------------------------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is optional. | |

6.11.6.4.1.1a.2.2 Physical channel parameters

| | | |
|---------------|---|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 268 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| | Repetition period | 8 |
| | Repetition length | 2 |
| | NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | |

6.11.6.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.2.1 Uplink

6.11.6.4.1.2.1.1 Transport channel parameters

6.11.6.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

| | | | | | |
|--------------|---|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 129 | | | |
| | RM attribute | 155 to 165 | | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN.

6.11.6.4.1.2.1.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |

NOTE: The first TFC is required for the alt. case, optional otherwise.

6.11.6.4.1.2.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 234 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 1 |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.11.6.4.1.2.2 Downlink

6.11.6.4.1.2.2.1 Transport channel parameters

6.11.6.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

| | | | | | |
|--------------|-------------------------|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0, 148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 40 | | | |

| | | |
|---|---|------------|
| | Coding type | CC 1/3 |
| | CRC, bit | 16 |
| | Max number of bits/TTI before rate matching | 516 |
| | Max number of bits/radio frame before rate matching | 129 |
| | RM attribute | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. | | |

6.11.6.4.1.2.2.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.11.6.4.1.2.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 236 |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.11.6.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.6.4.1.3.1 Uplink

6.11.6.4.1.3.1.1 Transport channel parameters

6.11.6.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| | | | | | |
|--------------|--|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| | Max number of bits/radio frame before rate matching | 516 | | | |
| | NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. | | | | |

6.11.6.4.1.3.1.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.11.6.4.1.3.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 468 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

6.11.6.4.1.3.2 Downlink

6.11.6.4.1.3.2.1 Transport channel parameters

6.11.6.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| | | | | | |
|---|---|--------------------------------|-------------------------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 13 600 | 12 800 | 12 800 | 12 800 |
| MAC | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| | MAC header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | DCH | | | |
| | TB sizes, bit | 148 (alt. 0,148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt. 1x0) (note) | | |
| | | TF1, bits | 1x148 | | |
| | TTI, ms | 10 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 516 | | | |
| Max number of bits/radio frame before rate matching | 516 | | | | |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE.

6.11.6.4.1.3.2.1.2 TFCS

| | |
|--|------------------------------|
| TFCS size | 2 |
| TFCS | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. | |

6.11.6.4.1.3.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 480 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0.92 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. | | |

- 6.11.6.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.1.4.1 Uplink
- 6.11.6.4.1.4.1.1 Transport channel parameters
- 6.11.6.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|---|---|----------------------------|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 81 (alt. 0, 39, 81) | 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 81 (alt. 0, 39, 81) | 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x103 | 1x60 |
| | | TF2, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 | |
| | Max number of bits/radio frame before rate matching | 152 | 167 | 68 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | | |

- 6.11.6.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

- 6.11.6.4.1.4.1.1.3 TFCS

| | |
|--|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

- 6.11.6.4.1.4.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.72 |

- 6.11.6.4.1.4.2 Downlink
- 6.11.6.4.1.4.2.1 Transport channel parameters
- 6.11.6.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|-------------------|----------------|----------------|----------------|
|--------------|-------------------|----------------|----------------|----------------|

| | | | | | |
|--|---|------------|---------------------------|------------|--------|
| RLC | Logical channel type | | DTCH | | |
| | RLC mode | | TM | TM | TM |
| | Payload sizes, bit | | 39,81 (alt. 0, 39, 81) | 103 | 60 |
| | Max data rate, bps | | 12 200 | | |
| | TrD PDU header, bit | | 0 | | |
| MAC | MAC header, bit | | 0 | | |
| | MAC multiplexing | | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| | TB sizes, bit | | 39,81 (alt. 0,39,81) | 103 | 60 |
| | TFS | TF0, bits | 0x81 (alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x103 | 1x60 |
| | | TF2, bits | 1x81 | N/A | N/A |
| | TTI, ms | | 20 | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | | 303 | 333 | 136 |
| | Max number of bits/radio frame before rate matching | | 152 | 167 | 68 |
| RM attribute | | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | | |

6.11.6.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.4.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.4.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.76 |

6.11.6.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.4a.1 Uplink

6.11.6.4.1.4a.1.1 Transport channel parameters

6.11.6.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| | | | | | |
|--------------|----------------------|----------------|--|-----------------|----|
| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
| RLC | Logical channel type | | DTCH | | |
| | RLC mode | | TM | TM | TM |
| | Payload sizes, bit | | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 |
| | Max data rate, bps | | 12 200 | | |
| | TrD PDU header, bit | | 0 | | |
| MAC | MAC header, bit | | 0 | | |
| | MAC multiplexing | | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH | |

| | | | | |
|---|-----------|--|-----------------|------------|
| TB sizes, bit | | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 |
| TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | TF1, bits | 1x39 | 1x53 | 1x60 |
| | TF2 bits | 1x42 | 1x63 | N/A |
| | TF3, bits | 1x55 | 1x84 | N/A |
| | TF4, bits | 1x75 | 1x103 | N/A |
| | TF5, bits | 1x81 | N/A | N/A |
| TTI, ms | | 20 | 20 | 20 |
| Coding type | | CC 1/3 | CC 1/3 | CC 1/2 |
| CRC, bit | | 12 | N/A | N/A |
| Max number of bits/TTI after channel coding | | 303 | 333 | 136 |
| Max number of bits/radio frame before rate matching | | 152 | 167 | 68 |
| RM attribute | | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.4a.1.1.3 TFCS

| | |
|---|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.4a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.72 |

6.11.6.4.1.4a.2 Downlink

6.11.6.4.1.4a.2.1 Transport channel parameters

6.11.6.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| | | | | | |
|--------------|----------------------|--|-----------------------|----------------|------|
| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | Max data rate, bps | 12 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 | |
| | TFS | TF0, bits | 0x81(alt. 1x0) (note) | 0x103 | 0x60 |
| | | TF1, bits | 1x39 | 1x53 | 1x60 |
| | | TF2, bits | 1x42 | 1x63 | N/A |

| | | | | |
|---|---|------------|------------|------------|
| | TF3, bits | 1x55 | 1x84 | N/A |
| | TF4, bits | 1x75 | 1x103 | N/A |
| | TF5, bits | 1x81 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 |
| | CRC, bit | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | 303 | 333 | 136 |
| | Max number of bits/radio frame before rate matching | 152 | 167 | 68 |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.4a.2.1.3 TFCS

| | |
|---|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.4a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.76 |

6.11.6.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.5.1 Uplink

6.11.6.4.1.5.1.1 Transport channel parameters

6.11.6.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|----------------------|----------------------------|---------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 65 (alt. 0, 39, 65) | 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | | | |
| | Coding type | CC 1/3 | | | |
| CRC, bit | 12 | | | | |

| | | | | |
|-------|---|------------|------------|------------|
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.5.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.5.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.40 |

6.11.6.4.1.5.2 Downlink

6.11.6.4.1.5.2.1 Transport channel parameters

6.11.6.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|------------------------|-----------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39,65 (alt. 0, 39, 65) | 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 65 (alt.0,39,65) | 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt,1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.5.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.5.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.40 |

6.11.6.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.5a.1 Uplink

6.11.6.4.1.5a.1.1 Transport channel parameters

6.11.6.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|---|--|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x53 | 1x40 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x76 | N/A |
| | | TF4, bits | 1x58 | 1x99 | N/A |
| | | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). | | | | |

6.11.6.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.5a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), |

| | |
|-------|--|
| | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.5a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.40 |

6.11.6.4.1.5a.2 Downlink

6.11.6.4.1.5a.2.1 Transport channel parameters

6.11.6.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 | |
|--------------|--|--|------------------------|----------------|------|
| RLC | Logical channel type | DTCH | | | |
| | RLC mode | TM | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40 | |
| | Max data rate, bps | 10 200 | | | |
| | TrD PDU header, bit | 0 | | | |
| MAC | MAC header, bit | 0 | | | |
| | MAC multiplexing | N/A | | | |
| Layer 1 | TrCH type | DCH | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40 | |
| | TFS | TF0, bits | 0x65 (alt. 1x0) (note) | 0x99 | 0x40 |
| | | TF1, bits | 1x39 | 1x53 | 1x40 |
| | | TF2, bits | 1x42 | 1x63 | N/A |
| | | TF3, bits | 1x55 | 1x76 | N/A |
| | | TF4, bits | 1x58 | 1x99 | N/A |
| | | TF5, bits | 1x65 | N/A | N/A |
| | TTI, ms | 20 | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | CC 1/2 | |
| | CRC, bit | 12 | N/A | N/A | |
| | Max number of bits/TTI after channel coding | 255 | 321 | 96 | |
| | Max number of bits/radio frame before rate matching | 128 | 161 | 48 | |
| | RM attribute | 180 to 220 | 170 to 210 | 215 to 256 | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.5a.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.5a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.40 |

6.11.6.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.6.1 Uplink

6.11.6.4.1.6.1.1 Transport channel parameters

6.11.6.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | Max data rate, bps | 7 950 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | TFS | TF0, bits | 0x75 (alt. 1x0) (note) | 0x84 |
| | | TF1, bits | 1x39 | 1x84 |
| | | TF2, bits | 1x75 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 285 | 276 | |
| | Max number of bits/radio frame before rate matching | 143 | 138 | |
| | RM attribute | 180 to 220 | 170 to 210 | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.6.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.6.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |

6.11.6.4.1.6.2 Downlink

6.11.6.4.1.6.2.1 Transport channel parameters

6.11.6.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | Max data rate, bps | 7 950 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | TFS | TF0, bits | 0x75 (alt. 1x0) (note) | |
| | | TF1, bits | 1x39 | 1x84 |
| | | TF2, bits | 1x75 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 285 | 276 | |
| | Max number of bits/radio frame before rate matching | 143 | 138 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.6.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.6.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.7.1 Uplink

6.11.6.4.1.7.1.1 Transport channel parameters

6.11.6.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 |
| | Max data rate, bps | 7 400 | |
| | TrD PDU header, bit | 0 | |

| | | | | |
|--|---|-------------------------|------------------------|------|
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x87 |
| | | TF2, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| | RM attribute | 180 to 220 | 170 to 210 | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.7.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.7.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

6.11.6.4.1.7.2 Downlink

6.11.6.4.1.7.2.1 Transport channel parameters

6.11.6.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| | | | | |
|--------------|---|-------------------------|-----------------------|------|
| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | TFS | TF0, bits | 0x61(alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x87 |
| | | TF2, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| | RM attribute | 180 to 220 | 170 to 210 | |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.11.6.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.7.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; optional otherwise. |

6.11.6.4.1.7.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.7a.1 Uplink

6.11.6.4.1.7a.1.1 Transport channel parameters

6.11.6.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|--|---------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | | |
| | Coding type | CC 1/3 | | |
| | CRC, bit | 12 | | |
| | Max number of bits/TTI after channel coding | 243 | | |
| | Max number of bits/radio frame before rate matching | 122 | | |
| | RM attribute | 180 to 220 | 170 to 210 | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.11.6.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.7a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.7a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

6.11.6.4.1.7a.2 Downlink

6.11.6.4.1.7a.2.1 Transport channel parameters

6.11.6.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|--|---------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | Max data rate, bps | 7 400 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 | |
| | TFS | TF0, bits | 0x61 (alt. 1x0) (note) | 0x87 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | 1x63 |
| | | TF3, bits | 1x55 | 1x76 |
| | | TF4, bits | 1x58 | 1x87 |
| | | TF5, bits | 1x61 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 243 | 285 | |
| | Max number of bits/radio frame before rate matching | 122 | 143 | |
| RM attribute | 180 to 220 | 170 to 210 | | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.11.6.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.7a.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), |

| | |
|-------|---|
| | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.7a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.8.1 Uplink

6.11.6.4.1.8.1.1 Transport channel parameters

6.11.6.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | |
| | Max data rate, bps | 6 700 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | |
| | TFS | TF0, bits | 0x58 (alt. 1x0) (note) | 0x76 |
| | | TF1, bits | 1x39 | 1x76 |
| | | TF2, bits | 1x58 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 234 | 252 | |
| | Max number of bits/radio frame before rate matching | 117 | 126 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.8.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.8.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 |

6.11.6.4.1.8.2 Downlink

6.11.6.4.1.8.2.1 Transport channel parameters

6.11.6.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|-------------------------|-----------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 | |
| | Max data rate, bps | 6 700 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 58 (alt. 0,39,58) | 76 | |
| | TFS | TF0, bits | 0x58 (alt.1x0) (note) | 0x76 |
| | | TF1, bits | 1x39 | 1x76 |
| | | TF2, bits | 1x58 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 234 | 252 | |
| | Max number of bits/radio frame before rate matching | 117 | 126 | |
| | RM attribute | 180 to 220 | 170 to 210 | |
| NOTE : CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.8.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.8.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.11.6.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.9.1 Uplink

6.11.6.4.1.9.1.1 Transport channel parameters

6.11.6.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|----------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |

| | | | |
|---|---|-------------------------|------------|
| | Payload sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 |
| | Max data rate, bps | 5 900 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | DCH |
| | TB sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 |
| | TFS | 0x55 (alt. 1x0) (note) | 0x63 |
| | TF0, bits | 1x39 | 1x63 |
| | TF1, bits | 1x55 | N/A |
| | TF2, bits | | |
| | TTI, ms | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 |
| | CRC, bit | 12 | N/A |
| | Max number of bits/TTI after channel coding | 225 | 213 |
| | Max number of bits/radio frame before rate matching | 113 | 107 |
| | RM attribute | 180 to 220 | 170 to 210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.9.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.9.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

6.11.6.4.1.9.2 Downlink

6.11.6.4.1.9.2.1 Transport channel parameters

6.11.6.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 |
| | Max data rate, bps | 5 900 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | DCH |
| | TB sizes, bit | 39, 55 (alt. 0, 39, 55) | 63 |
| | TFS | 0x55 (alt. 1x0) (note) | 0x63 |
| | TF0, bits | 1x39 | 1x63 |
| | TF1, bits | 1x55 | N/A |
| | TF2, bits | | |
| | TTI, ms | 20 | 20 |
| | Coding type | CC 1/3 | CC 1/3 |
| | CRC, bit | 12 | N/A |

| | | | |
|--|---|------------|------------|
| | Max number of bits/TTI after channel coding | 225 | 213 |
| | Max number of bits/radio frame before rate matching | 113 | 107 |
| | RM attribute | 180 to 220 | 170 to 210 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.9.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.9.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.6.4.1.10.1 Uplink

6.11.6.4.1.10.1.1 Transport channel parameters

6.11.6.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | Max data rate, bps | 5 150 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | TFS | TF0, bits | 0x49 (alt. 1x0) (note) | 0x54 |
| | | TF1, bits | 1x39 | 1x54 |
| | | TF2, bits | 1x49 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | |
| | Max number of bits/radio frame before rate matching | 104 | 93 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.1.1.1.

6.11.6.4.1.10.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.10.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.11.6.4.1.10.2 Downlink

6.11.6.4.1.10.2.1 Transport channel parameters

6.11.6.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|--|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | Max data rate, bps | 5 150 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 49 (alt. 0, 39, 49) | 54 | |
| | TFS | TF0, bits | 0x49 (alt. 1x0) (note) | 0x54 |
| | | TF1, bits | 1x39 | 1x54 |
| | | TF2, bits | 1x49 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 207 | 186 | |
| | Max number of bits/radio frame before rate matching | 104 | 93 | |
| RM attribute | 180 to 220 | 170 to 210 | | |
| NOTE: | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.2.1.1.

6.11.6.4.1.10.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.10.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |

| | | |
|--|------------------|---------|
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.72 |

6.11.6.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.6.4.1.11.1 Uplink

6.11.6.4.1.11.1.1 Transport channel parameters

6.11.6.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|--------------|---|-------------------------|------------------------|------|
| RLC | Logical channel type | DTCH | | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | |
| | Max data rate, bps | 4 750 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 | |
| | TFS | TF0, bits | 0x42 (alt. 1x0) (note) | 0x53 |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | N/A |
| | TTI, ms | 20 | 20 | |
| | Coding type | CC 1/3 | CC 1/3 | |
| | CRC, bit | 12 | N/A | |
| | Max number of bits/TTI after channel coding | 186 | 183 | |
| | Max number of bits/radio frame before rate matching | 93 | 92 | |
| RM attribute | 180 to 220 | 170 to 210 | | |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.11.6.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.1.1.

6.11.6.4.1.11.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.11.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |

6.11.6.4.1.11.2 Downlink

6.11.6.4.1.11.2.1 Transport channel parameters

6.11.6.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|-------------------|----------------|----------------|
|--------------|-------------------|----------------|----------------|

| | | | | |
|--|---|------------|-------------------------|--------|
| RLC | Logical channel type | | DTCH | |
| | RLC mode | | TM | TM |
| | Payload sizes, bit | | 39, 42 (alt. 0, 39, 42) | 53 |
| | Max data rate, bps | | 4 750 | |
| | TrD PDU header, bit | | 0 | |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, bit | | 39, 42 (alt. 0, 39, 42) | 53 |
| | TFS | TF0, bits | 0x42 (alt.1x0)(note) | |
| | | TF1, bits | 1x39 | 1x53 |
| | | TF2, bits | 1x42 | N/A |
| | TTI, ms | | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 |
| | CRC, bit | | 12 | N/A |
| | Max number of bits/TTI after channel coding | | 186 | 183 |
| | Max number of bits/radio frame before rate matching | | 93 | 92 |
| RM attribute | | 180 to 220 | 170 to 210 | |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | | |

6.11.6.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.2.1.1.

6.11.6.4.1.11.2.1.3 TFCS

| | |
|--|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.11.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.76 |

6.11.6.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.12.1 Uplink

6.11.6.4.1.12.1.1 Transport channel parameters

6.11.6.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 28 800 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | | 20 |

| | | |
|--|---|------------|
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 3 564 |
| | Max number of bits/radio frame before rate matching | 891 |
| | RM attribute | 160 to 200 |

6.11.6.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.12.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.12.1.2 Physical channel parameters

| | | |
|-------------|---|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |
| NOTE: | In case the first TFC in a TFCS is not configured, the TFCl code word will be 8 bits. | |

6.11.6.4.1.12.2 Downlink

6.11.6.4.1.12.2.1 Transport channel parameters

6.11.6.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| | Max number of bits/radio frame before rate matching | 891 | |
| | RM attribute | 160 to 200 | |

6.11.6.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.12.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.12.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.40 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. | | |

6.11.6.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.13.1 Uplink

6.11.6.4.1.13.1.1 Transport channel parameters

6.11.6.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

| | | | |
|--------------|---|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 64 000 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 640 | |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640(alt. 4x640) |
| | TTI, ms | 20(alt. 40) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 948(alt . 7884) | |
| | Max number of bits/radio frame before rate matching | 1 974(alt. 1971) | |
| | RM attribute | 150 to 195 | |

6.11.6.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.13.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.13.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|--|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot + SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1148 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. | | |

6.11.6.4.1.13.2 Downlink

6.11.6.4.1.13.2.1 Transport channel parameters

6.11.6.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

| | | | |
|--------------|---|------------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 64 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 2x640(alt. 4x640) |
| | TTI, ms | | 20(alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3 948(alt. 7884) |
| | Max number of bits/radio frame before rate matching | | 1 974(alt. 1971) |
| RM attribute | | 150 to 195 | |

6.11.6.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.13.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.13.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 204 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.11.6.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.14.1 Uplink

6.11.6.4.1.14.1.1 Transport channel parameters

6.11.6.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 32 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |

| | | |
|--|---|-------------------|
| | TF1, bits | 1x640(alt. 2x640) |
| | TTI, ms | 20(alt. 40) |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 980(alt. 3948) |
| | Max number of bits/radio frame before rate matching | 990(alt. 987) |
| | RM attribute | 165 to 210 |

6.11.6.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.14.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.14.1.2 Physical channel parameters

| | | |
|-------------|---|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.11.6.4.1.14.2 Downlink

6.11.6.4.1.14.2.1 Transport channel parameters

6.11.6.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

| | | | |
|--------------|---|-----------|-------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, bps | | 32 000 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 640 |
| | TFS | TF0, bits | 0x640 |
| | | TF1, bits | 1x640(alt. 2x640) |
| | TTI, ms | | 20(alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 980(alt. 3948) |
| | Max number of bits/radio frame before rate matching | | 990(alt. 987) |
| | RM attribute | | 165 to 210 |

6.11.6.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.14.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.14.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.11.6.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.15.1 Uplink

6.11.6.4.1.15.1.1 Transport channel parameters

6.11.6.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 14 400 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 788 |
| | Max number of bits/radio frame before rate matching | | 447 |
| | RM attribute | | 145 to 185 |

6.11.6.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.15.1.1.3 TFCS

| | |
|--|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.15.1.2 Physical channel parameters

| | | |
|---|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.11.6.4.1.15.2 Downlink

6.11.6.4.1.15.2.1 Transport channel parameters

6.11.6.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 14 400 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 788 |
| | Max number of bits/radio frame before rate matching | | 447 |
| | RM attribute | | 145 to 185 |

6.11.6.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.15.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.15.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.80 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.11.6.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.16.1 Uplink

6.11.6.4.1.16.1.1 Transport channel parameters

6.11.6.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

| | | | |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 28 800 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |

| | | |
|--|---|------------|
| | TF1, bits | 1x576 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 3 564 |
| | Max number of bits/radio frame before rate matching | 891 |
| | RM attribute | 135 to 175 |

6.11.6.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.16.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.16.1.2 Physical channel parameters

| | | |
|-------------|---|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.11.6.4.1.16.2 Downlink

6.11.6.4.1.16.2.1 Transport channel parameters

6.11.6.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 28 800 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 3 564 | |
| | Max number of bits/radio frame before rate matching | 891 | |
| | RM attribute | 135 to 175 | |

6.11.6.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.16.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (28.8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.11.6.4.1.16.2.2 Physical channel parameters

| | | |
|---|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.44 |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | | |

6.11.6.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.17.1 Uplink

6.11.6.4.1.17.1.1 Transport channel parameters

6.11.6.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 576 | |
| | Max data rate, bps | 57 600 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 576 | |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 7 116 | |
| Max number of bits/radio frame before rate matching | 1 779 | | |
| RM attribute | 125 to 165 | | |

6.11.6.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.17.1.1.3 TFCS

| | |
|--|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.17.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 |

6.11.6.4.1.17.2 Downlink

6.11.6.4.1.17.2.1 Transport channel parameters

6.11.6.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 576 |
| | Max data rate, bps | | 57 600 |
| | TrD PDU header, bit | | 0 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | | TF3, bits | 3x576 |
| | | TF4, bits | 4x576 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 7 116 |
| | Max number of bits/radio frame before rate matching | | 1 779 |
| | RM attribute | | 125 to 165 |

6.11.6.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.17.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (57.6 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.17.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 960 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.18 Void

6.11.6.4.1.19 Void

6.11.6.4.1.20 Void

6.11.6.4.1.21 Void

6.11.6.4.1.22 Void

6.11.6.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.23.1 Uplink

6.11.6.4.1.23.1.1 Transport channel parameters

6.11.6.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt.144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 1 062 (alt. 1 206) | |
| RM attribute | 135 to 175 | | |

6.11.6.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.23.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.11.6.4.1.23.2 Downlink

6.11.6.4.1.23.2.1 Transport channel parameters

6.11.6.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 8 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |

| | | |
|--|---|------------|
| | Max number of bits/TTI after channel coding | 1 068 |
| | Max number of bits/radio frame before rate matching | 267 |
| | RM attribute | 135 to 175 |

6.11.6.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.23.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23.2.2 Physical channel parameters

| | | |
|---------------|---|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

6.11.6.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.23a.1 Uplink

6.11.6.4.1.23a.1.1 Transport channel parameters

6.11.6.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| | | | |
|---|---|----------------|--------------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 (alt. 128) |
| | Max data rate, bps | | 8 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 (alt. 144) |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | N/A (alt. 5x144) |
| | TTI, ms | | 40 (alt. 80) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1 068 (alt. 2 412) |
| Max number of bits/radio frame before rate matching | | 267 (alt. 302) | |
| RM attribute | | 135 to 175 | |

6.11.6.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.23a.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 (alt. 6) |
| TFCS | (8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.56 (alt. 0.48) |

6.11.6.4.1.23a.2 Downlink

See clause 6.11.6.4.1.23.2.

6.11.6.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.23b.1 Uplink

6.11.6.4.1.23b.1.1 Transport channel parameters

6.11.6.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 531 (alt. 603) | |
| RM attribute | 135 to 175 | | |

6.11.6.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.23b.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 (alt. 0.60) |

6.11.6.4.1.23b.2 Downlink

6.11.6.4.1.23b.2.1 Transport channel parameters

6.11.6.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 | |
| Max number of bits/radio frame before rate matching | 531 | | |
| RM attribute | 135 to 175 | | |

6.11.6.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.23b.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (16 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23b.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.23c.1 Uplink

6.11.6.4.1.23c.1.1 Transport channel parameters

6.11.6.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 (alt. 128) |
| | Max data rate, bps | 32 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 336 (alt. 144) |

| | | |
|---|--------------------|---------------------|
| TFS | TF0, bits | 0x336 (alt. 0x144) |
| | TF1, bits | 1x336 (alt. 1x144) |
| | TF2, bits | 2x336 (alt. 5x144) |
| | TF3, bits | 3x336 (alt. 7x144) |
| | TF4, bits | 4x336 (alt. 10x144) |
| TTI, ms | 40 | |
| Coding type | TC | |
| CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 4 236 (alt. 4 812) | |
| Max number of bits/radio frame before rate matching | 1 059 (alt. 1 203) | |
| RM attribute | 135 to 175 | |

6.11.6.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.23c.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23c.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.11.6.4.1.23c.2 Downlink

6.11.6.4.1.23c.2.1 Transport channel parameters

6.11.6.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Max number of bits/radio frame before rate matching | 1 059 | |
| | RM attribute | 135 to 175 | |

6.11.6.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.23c.2.1.3 TFCS

| | |
|---|---|
| TFCS size | 10 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.23c.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.11.6.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.23d.1 Uplink

6.11.6.4.1.23d.1.1 Transport channel parameters

6.11.6.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| | | | |
|--------------|---|--------------------|--------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 32 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 5x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 2 124 (alt. 2 412) | |
| | Max number of bits/radio frame before rate matching | 1 062 (alt. 1 206) | |
| RM attribute | 135 to 175 | | |

6.11.6.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.23d.1.1.3 TFCS

| | |
|---|--|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.23d.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |

| | | |
|--|------------------|------------------|
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.11.6.4.1.23d.2 Downlink

6.11.6.4.1.23d.2.1 Transport channel parameters

6.11.6.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | | RAB |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bit | | 320 |
| | Max data rate, bps | | 32 000 |
| | AMD PDU header, bit | | 16 |
| MAC | MAC header, bit | | 0 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 336 |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 2 124 |
| | Max number of bits/radio frame before rate matching | | 1 062 |
| | RM attribute | | 135 to 175 |

6.11.6.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.23d.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.23d.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 716 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.24 Void

6.11.6.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.25.1 Uplink

See clause 6.11.6.4.1.23.1.

6.11.6.4.1.25.2 Downlink

6.11.6.4.1.25.2.1 Transport channel parameters

6.11.6.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 64 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 3x336 |
| | | TF4, bits | 4x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 | |
| | Max number of bits/radio frame before rate matching | 2 118 | |
| | RM attribute | 130 to 170 | |

6.11.6.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.25.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.25.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|--|------------------------------|
| Midamble | 1024 chips | 1024 chips |
| Codes and time slots | SF32 x 3 codes x 1 time slot + SF32 x 2 codes x 1 time slot | SF32 x 9 codes x 1 time slot |
| Max. Number of data bits/radio frame | 1 204 bits | 2 180 bits |
| TFCI code word | 16 bits | 16 bits |
| Puncturing limit | 0.52 | 0.96 |

6.11.6.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.26.1 Uplink

6.11.6.4.1.26.1.1 Transport channel parameters

6.11.6.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| | | |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 (alt. 128) |
| | Max data rate, bps | 64 000 |
| | AMD PDU header, bit | 16 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 336 (alt. 144) |

| | | | |
|--------------|---|--------------------|---------------------|
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 3x144) |
| | | TF3, bits | 3x336 (alt. 7x144) |
| | | TF4, bits | 4x336 (alt. 10x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 4 236 (alt. 4 812) | |
| | Max number of bits/radio frame before rate matching | 2 118 (alt. 2 406) | |
| RM attribute | 130 to 170 | | |

6.11.6.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.26.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.11.6.4.1.26.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|---|--|
| Midamble | 1024 chips | 1024 chips |
| Codes and time slots | SF32 x 1 code x 1 time slot + SF8 x 1 code x 1 time slot | SF4 x 1 code x 1 time slot + SF8 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 1148 bits | 2 784 bits |
| TFCl code word | 16 bits | 16 bits |
| TPC | 2 bits | 2 bits |
| Puncturing Limit | 0.48 (alt. 0.44) | 1 |

6.11.6.4.1.26.2 Downlink

See clause 6.11.6.4.1.25.2.

6.11.6.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.27.1 Uplink

See clause 6.11.6.4.1.26.1.

6.11.6.4.1.27.2 Downlink

6.11.6.4.1.27.2.1 Transport channel parameters

6.11.6.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 128 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |

| | | |
|--|---|------------|
| | TF3, bits | 4x336 |
| | TF4, bits | 8x336 |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8 460 |
| | Max number of bits/radio frame before rate matching | 4 230 |
| | RM attribute | 120 to 160 |

6.11.6.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.27.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.27.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|------------------------------|--|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF32 x 8 codes x 1 time slot | SF32 x 4 codes x 2 time slots + SF32 x 3 codes x 2 time slots |
| Max. Number of data bits/radio frame | 2 192 bits | 3848 bits |
| TFCI code word | 16 bits | 16 bits |
| Puncturing limit | 0.48 | 0.84 |

6.11.6.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.28.1 Uplink

6.11.6.4.1.28.1.1 Transport channel parameters

6.11.6.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

| | | | |
|---|---|---------------------|---------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 128 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 7x144) |
| | | TF3, bits | 4x336 (alt. 14x144) |
| | | TF4, bits | 8x336 (alt. 20x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 (alt. 9 612) | |
| Max number of bits/radio frame before rate matching | 4 230 (alt. 4 806) | | |
| RM attribute | 120 to 160 | | |

6.11.6.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.28.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt.10) |
| TFCS | (128 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.28.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|---------------------------|--|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF4 x 1 code x 1 timeslot | SF4 x 1 code x 2 timeslots + SF8 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 2 064 bits | 5 376 bits |
| TFCI code word | 16 bits | 16 bits |
| TPC | 2 bits | 2 bits |
| Puncturing Limit | 0.44 (alt. 0.40) | 1 |

6.11.6.4.1.28.2 Downlink

See clause 6.11.6.4.1.27.2.

6.11.6.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.29.1 Uplink

See clause 6.11.6.4.1.26.1.

6.11.6.4.1.29.2 Downlink

6.11.6.4.1.29.2.1 Transport channel parameters

6.11.6.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

| | | | |
|---|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 144 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 9x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 9 516 | | |
| Max number of bits/radio frame before rate matching | 4 758 | | |
| RM attribute | 140 to 180 | | |

6.11.6.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.29.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.29.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 9 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2468 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.30.1 Uplink

6.11.6.4.1.30.1.1 Transport channel parameters

6.11.6.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

| | | | |
|--------------|---|---------------------|---------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 144 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt. 0x144) |
| | | TF1, bits | 1x336 (alt. 1x144) |
| | | TF2, bits | 2x336 (alt. 10x144) |
| | | TF3, bits | 4x336 (alt. 20x144) |
| | | TF4, bits | 8x336 (alt. 30x144) |
| | | TF5, bits | 9x336 (alt. 45x144) |
| | TTI, ms | 20 (alt. 40) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 9 516 (alt. 21 624) | |
| | Max number of bits/radio frame before rate matching | 4 758 (alt. 5 406) | |
| | RM attribute | 140 to 180 | |

6.11.6.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.30.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (144 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.30.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot + SF4 x 1 codex 1 time slot |
| | Max. Number of data bits/radio frame | 2340 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 (alt. 0.40) |

6.11.6.4.1.30.2 Downlink

See clause 6.11.6.4.1.29.2.

6.11.6.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.31.1 Uplink

See clause 6.11.6.4.1.26.1.

6.11.6.4.1.31.2 Downlink

6.11.6.4.1.31.2.1 Transport channel parameters

6.11.6.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

| | | | |
|---|---|---------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | N/A (alt. 12x336) |
| | | TF6, bits | N/A (alt. 16x336) |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 460 (alt. 16 920) | |
| Max number of bits/radio frame before rate matching | 8 460 (alt. 8 460) | | |
| RM attribute | 135 to 175 | | |

6.11.6.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.31.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 (alt.14) |
| TFCS | (256 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.31.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.32.1 Uplink

See clause 6.11.6.4.1.26.1.

6.11.6.4.1.32.2 Downlink

6.11.6.4.1.32.2.1 Transport channel parameters

6.11.6.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| | | | |
|---|----------------------|-------------------|-------------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | N/A (alt. 16x336) |
| | | TF7, bits | N/A (alt. 20x336) |
| | TF8, bits | N/A (alt. 24x336) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| Max number of bits/TTI after channel coding | 12 684 (alt. 25 368) | | |
| Max number of bits/radio frame before rate matching | 12 684 (alt. 12 684) | | |
| RM attribute | 110 to 150 | | |

6.11.6.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.32.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 12 (alt.18) |
| TFCS | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.32.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | | Physical Configuration 2 | |
|--------------------------------------|-------------------------------|-----------|--|-----------|
| | Midamble | 512 chips | | 512 chips |
| Codes and time slots | SF32 x 8 codes x 3 time slots | | SF32 x 6 codes x 4 time slots + SF32 x 4 codes x 1 time slot | |
| Max. Number of data bits/radio frame | 6 608 bits | | 7 712 bits | |
| TFCl code word | 16 bits | | 16 bits | |
| Puncturing Limit | 0.48 | | 0.60 | |

6.11.6.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.33.1 Uplink

See clause 6.11.6.4.1.28.1.

6.11.6.4.1.33.2 Downlink

See clause 6.11.6.4.1.32.2.

6.11.6.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.34.1 Uplink

6.11.6.4.1.34.1.1 Transport channel parameters

6.11.6.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | |
|---|----------------------|-------------------|-------------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 384 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | | TF2, bits | 2x336 |
| | | TF3, bits | 4x336 |
| | | TF4, bits | 8x336 |
| | | TF5, bits | 12x336 |
| | | TF6, bits | N/A (alt. 16x336) |
| | | TF7, bits | N/A (alt. 20x336) |
| | TF8, bits | N/A (alt. 24x336) | |
| | TTI, ms | 10 (alt. 20) | |
| | Coding type | TC | |
| CRC, bit | 16 | | |
| Max number of bits/TTI after channel coding | 12 684 (alt. 25 368) | | |
| Max number of bits/radio frame before rate matching | 12 684 | | |
| RM attribute | 110 to 150 | | |

6.11.6.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.34.1.1.3 TFCS

| | |
|-----------|-----------------------|
| TFCS size | 12 (alt.18) |
| TFCS | (384 kbps RAB, DCCH)= |

| | |
|-------|---|
| | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.34.1.2 Physical channel parameters

| DPCH Uplink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|-----------------------------|---|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF4 x 1 code x 3 time slots | SF4 x 1 code x 5 timeslots + SF8 x 1 code x 2 timeslots (alt. {SF4 x 1 code + SF8 x 1 code} x 4 timeslots) |
| Max. Number of data bits/radio frame | 6 480 bits | 13 104 bits |
| TFCI code word | 16 bits | 16 bits |
| TPC | 2 bits | 2 bits |
| Puncturing Limit | 0.48 | 1 |

6.11.6.4.1.34.2 Downlink

See clause 6.11.6.4.1.32.2.

6.11.6.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.35.1 Uplink

6.11.6.4.1.35.1.1 Transport channel parameters

See clause 6.11.6.4.1.26.1.1.

6.11.6.4.1.35.1.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 (alt. 0.80) |

6.11.6.4.1.35.2 Downlink

6.11.6.4.1.35.2.1 Transport channel parameters

6.11.6.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

| | | | |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 2 048 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| TF3, bits | | 4x656 | |

| Higher layer | RAB/Signalling RB | RAB |
|--------------|---|-----------------------|
| | TF4, bits | 8x656 |
| | TF5, bits | 12x656 |
| | TF6, bits | 16x656 |
| | TF7, bits | 20x656 |
| | TF8, bits | 24x656 |
| | TF9, bits | 28x656 |
| | TF10, bits | 31x656 (alt. 32x656) |
| | TF11, bits | N/A (alt. 36x656) |
| | TF12, bits | N/A (alt. 40x656) |
| | TF13, bits | N/A (alt. 44x656) |
| | TF14, bits | N/A (alt. 48x656) |
| | TF15, bits | N/A (alt. 52x656) |
| | TF16, bits | N/A (alt. 56x656) |
| | TF17, bits | N/A (alt. 60x656) |
| | TF18, bits | N/A (alt. 64x656) |
| | TTI, ms | 10 (alt. 20) |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 62 565 (alt. 129 141) |
| | Max number of bits/radio frame before rate matching | 62 565 (alt. 64 571) |
| | RM attribute | 130 to 170 |

6.11.6.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.35.2.1.3 TFCS

| TFCS size | 21 (alt.38) |
|-----------|--|
| TFCS | (2 048 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0),(TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1),(TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (TF16, TF1), (TF17, TF1)(TF18, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.35.2.2 Physical channel parameters

| DPCH Downlink | Physical Configuration 1 | Physical Configuration 2 |
|--------------------------------------|-----------------------------|---|
| Midamble | 512 chips | 512 chips |
| Codes and time slots | SF1 x 1 code x 5 time slots | SF8 x 13 codes x 4 time slots + SF8 x 12 codes x 7 time slot |
| Max. Number of data bits/radio frame | 44 144 bits (alt. 44 128) | 37 520 bits (alt. 37 504) |
| TFCI code word | 16 bits (alt. 32 bits) | 16 bits (alt. 32 bits) |
| Puncturing limit | 0.68 (alt.0.68) | 0.56 |

6.11.6.4.1.36 Void

6.11.6.4.1.37 Void

6.11.6.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38.1 Uplink

6.11.6.4.1.38.1.1 Transport channel parameters

6.11.6.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23.1.1.1.

6.11.6.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

6.11.6.4.1.38.2 Downlink

6.11.6.4.1.38.2.1 Transport channel parameters

6.11.6.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.

6.11.6.4.1.38.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |

| | | |
|--|------------------|------|
| | Puncturing limit | 0.52 |
|--|------------------|------|

6.11.6.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38a.1 Uplink

6.11.6.4.1.38a.1.1 Transport channel parameters

6.11.6.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | |
|--------------|---|----------------|-------------------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 (alt. 128) | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 (alt. 144) | |
| | TFS | TF0, bits | 0x336 (alt 0x144) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 0 | |
| | Max number of bits/radio frame before rate matching | 0 | |
| | RM attribute | 130 to 170 | |

6.11.6.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38a.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 |

6.11.6.4.1.38a.2 Downlink

6.11.6.4.1.38a.2.1 Transport channel parameters

6.11.6.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| | | | |
|--------------|---|-----------|------------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 0 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 0 |
| | Max number of bits/radio frame before rate matching | | 0 |
| | RM attribute | | 130 to 170 |

6.11.6.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

6.11.6.4.1.38a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38b.1 Uplink

6.11.6.4.1.38b.1.1 Transport channel parameters

6.11.6.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38b.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 (alt. 17) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), |

| |
|--|
| (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
|--|

NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.11.6.4.1.38b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 (alt. 0.56) |

6.11.6.4.1.38b.2 Downlink

6.11.6.4.1.38b.2.1 Transport channel parameters

6.11.6.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38b.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |

NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.11.6.4.1.38b.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.11.6.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38c.1 Uplink

6.11.6.4.1.38c.1.1 Transport channel parameters

6.11.6.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.1.1.1.

6.11.6.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38c.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 18 (alt. 17) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38c.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 904 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.52) |

6.11.6.4.1.38c.2 Downlink

6.11.6.4.1.38c.2.1 Transport channel parameters

6.11.6.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.2.1.1.

6.11.6.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38c.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 18 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38c.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 960 |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38d.1 Uplink

6.11.6.4.1.38d.1.1 Transport channel parameters

6.11.6.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|---|---|--------------------------------|--------------------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 (alt. 128) | 320 (alt. 128) | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 (alt. 148) | | |
| | TFS | TF0, bits | 0x340 (alt 0x148) | |
| | | TF1, bits | 1x340 (alt 1x148) | |
| | | TF2, bits | 2x340 (alt 3x148) | |
| | | TF3, bits | 3x340 (alt 7x148) | |
| | | TF4, bits | 4x340 (alt 10x148) | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 (alt. 4 932) | | |
| Max number of bits/radio frame before rate matching | 2 142 (alt. 2 466) | | | |
| RM attribute | 130 to 170 | | | |

6.11.6.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38d.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38d.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.64) |

6.11.6.4.1.38d.2 Downlink

6.11.6.4.1.38d.2.1 Transport channel parameters

6.11.6.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|---|---|--------------------------------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| Max number of bits/radio frame before rate matching | 2 142 | | | |
| RM attribute | 130 to 170 | | | |

6.11.6.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38d.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38d.2.2 Physical channel parameters

| | | |
|---------------|----------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 7 codes x 1 time slot |

| | | |
|--|--------------------------------------|------------|
| | Max. Number of data bits/radio frame | 1 916 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38e.1 Uplink

6.11.6.4.1.38e.1.1 Transport channel parameters

6.11.6.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.11.6.4.1.38a.1.1.2.

6.11.6.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38e.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |

NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.11.6.4.1.38e.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 |

6.11.6.4.1.38e.2 Downlink

6.11.6.4.1.38e.2.1 Transport channel parameters

6.11.6.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.11.6.4.1.38a.2.1.2.

6.11.6.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38e.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= |

| | |
|-------|--|
| | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38e.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.38f Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38f.1 Uplink

6.11.6.4.1.38f.1.1 Transport channel parameters

6.11.6.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38f.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 (alt. 32) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38f.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |

| | | |
|--|------------------|-----------------|
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 (alt.0.56) |

6.11.6.4.1.38f.2 Downlink

6.11.6.4.1.38f.2.1 Transport channel parameters

6.11.6.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38f.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38f.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.11.6.4.1.38g Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38g.1 Uplink

6.11.6.4.1.38g.1.1 Transport channel parameters

6.11.6.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.1.1.1.

6.11.6.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38g.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 32 (alt. 31) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) (alt. (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1)) |
| NOTE 1: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |
| NOTE 2: | The alt. TFCS is used when the 16Kbps RAB alt. is used. |

6.11.6.4.1.38g.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot + SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 664 bits (alt. 696 bits) |
| | TFCI code word | 32 bits (alt. 16 bits) |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 (alt. 0.60) |

6.11.6.4.1.38g.2 Downlink

6.11.6.4.1.38g.2.1 Transport channel parameters

6.11.6.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.2.1.1.

6.11.6.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

6.11.6.4.1.38g.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 36 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38g.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 3 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 700 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.38h Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38h.1 Uplink

6.11.6.4.1.38h.1.1 Transport channel parameters

6.11.6.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.1.1.1.

6.11.6.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38h.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38h.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF8 x 1 code x 1 time slot + SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 084 bits |
| | TFCl code word | 32 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt.0.60) |

6.11.6.4.1.38h.2 Downlink

6.11.6.4.1.38h.2.1 Transport channel parameters

6.11.6.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.2.1.1.

6.11.6.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38h.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 32 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38h.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 944 |
| | TFCl code word | 32 bits |
| | Puncturing limit | 0.60 |

6.11.6.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38i.1 Uplink

6.11.6.4.1.38i.1.1 Transport channel parameters

6.11.6.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38i.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 48 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38i.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 936 bits |
| | TFCI code word | 32 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt.0.60) |

6.11.6.4.1.38i.2 Downlink

6.11.6.4.1.38i.2.1 Transport channel parameters

6.11.6.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38i.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), |

| | |
|-------|---|
| | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38i.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 7 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 900 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38j.1 Uplink

See clause 6.11.6.4.1.38i.1

6.11.6.4.1.38j.2 Downlink

6.11.6.4.1.38j.2.1 Transport channel parameters

6.11.6.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

6.11.6.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38j.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 60 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

| | |
|-------|--|
| | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.38j.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 6 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 3 280 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.64 |

6.11.6.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.39.1 Uplink

See clause 6.11.6.4.1.38.1.

6.11.6.4.1.39.2 Downlink

6.11.6.4.1.39.2.1 Transport channel parameters

6.11.6.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.39.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.39.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 936 bits |
| | TFCI code word | 16 bits |

| | | |
|--|------------------|------|
| | Puncturing limit | 0.68 |
|--|------------------|------|

6.11.6.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.40.1 Uplink

6.11.6.4.1.40.1.1 Transport channel parameters

6.11.6.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.40.1.1.4 TFCS

6.11.6.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.11.6.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.40.1.2 Physical channel parameters

6.11.6.4.1.40.1.2.1 Physical channel (one CCTrCH case)

| | | |
|-------------|----------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |

| | | |
|--|--------------------------------------|------------------|
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.64 (alt. 0.56) |

6.11.6.4.1.40.1.2.2 Physical channel (two CCTrCH case)

6.11.6.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 0.68 |

6.11.6.4.1.40.1.2.2.2 Physical channel (Interactive or background)

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.84 (alt. 0.72) |

6.11.6.4.1.40.2 Downlink

Transport channel parameters

6.11.6.4.1.40.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.40.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.40.2.1.4 TFCS

6.11.6.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.11.6.4.1.39.2.1.4.

6.11.6.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

6.11.6.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.40.2.2 Physical channel parameters

6.11.6.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.11.6.4.1.39.2.2.

6.11.6.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.6.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 204 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.41.1 Uplink

See clause 6.11.6.4.1.40.1.

6.11.6.4.1.41.2 Downlink

6.11.6.4.1.41.2.1 Transport channel parameters

6.11.6.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

6.11.6.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.41.2.1.4 TFCS

6.11.6.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

| | |
|-------|--|
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |
|-------|--|

6.11.6.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

6.11.6.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|--|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 5 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.41.2.2 Physical channel parameters

6.11.6.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 5codes x 2time slots |
| | Max. Number of data bits/radio frame | 2 744 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 |

6.11.6.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.6.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.11.6.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,48 |

6.11.6.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.42.1 Uplink

6.11.6.4.1.42.1.1 Transport channel parameters

6.11.6.4.1.42.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.42.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.42.1.1.4 TFCS

See clause 6.11.6.4.1.40.1.1.4.1.

6.11.6.4.1.42.1.2 Physical channel parameters

See clause 6.11.6.4.1.40.1.2.1.

6.11.6.4.1.42.2 Downlink

6.11.6.4.1.42.2.1 Transport channel parameters

6.11.6.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.11.6.4.1.31.2.1.1.

6.11.6.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.42.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 (alt. 42) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.42.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 2 time slots + SF32 x 4 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 5 504 bits (alt. 5 488) |

| | | |
|--|------------------|-------------------|
| | TFCI code word | 16 bits (alt. 32) |
| | Puncturing limit | 0.60 |

6.11.6.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.43.1 Uplink

See clause 6.11.6.4.1.40.1.

6.11.6.4.1.43.2 Downlink

6.11.6.4.1.43.2.1 Transport channel parameters

6.11.6.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.11.6.4.1.32.2.1.1.

6.11.6.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.43.2.1.4 TFCS

6.11.6.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

| | |
|-----------|--|
| TFCS size | 36 (alt. 54) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

6.11.6.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

| | |
|-----------|---|
| TFCS size | 6 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

| | |
|-----------|---|
| TFCS size | 6 (alt. 9) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0) (alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0)) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.43.2.2 Physical channel parameters

6.11.6.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 592 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.6.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.11.6.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

| | | |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,52 |

6.11.6.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.44.1 Uplink

6.11.6.4.1.44.1.1 Transport channel parameters

6.11.6.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

6.11.6.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.44.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.44.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | {SF16 x 1 code + SF4 x 1 code} x 1 time slot |
| | Max. Number of data bits/radio frame | 2 616 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.44) |

6.11.6.4.1.44.2 Downlink

6.11.6.4.1.44.2.1 Transport channel parameters

6.11.6.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.11.6.4.1.35.2.1.1.

6.11.6.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.44.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 12 codes x 11 time slots |
| | Max. Number of data bits/radio frame | 36 400 bits |
| | TFCl code word | 32 bits |
| | Puncturing limit | 0.52 |

6.11.6.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.45.1 Uplink

6.11.6.4.1.45.1.1 Transport channel parameters

6.11.6.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.11.6.4.1.17.1.1.1.

6.11.6.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.45.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.45.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|--|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot + SF8 x 1 codex 1 time slot |
| | Max. Number of data bits/radio frame | 1 392 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

6.11.6.4.1.45.2 Downlink

6.11.6.4.1.45.2.1 Transport channel parameters

6.11.6.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.11.6.4.1.17.2.1.1.

6.11.6.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.45.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.45.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 448 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

6.11.6.4.1.46 Void

6.11.6.4.1.47 Void

6.11.6.4.1.48 Void

6.11.6.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.49.1 Uplink

6.11.6.4.1.49.1.1 Transport channel parameters

6.11.6.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.49.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.49.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.11.6.4.1.49.2 Downlink

6.11.6.4.1.49.2.1 Transport channel parameters

6.11.6.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.49.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 12 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.49.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.76 |

6.11.6.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.49a.1 Uplink

6.11.6.4.1.49a.1.1 Transport channel parameters

6.11.6.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.49a.1.1.4 TFCS

| | |
|-----------|----|
| TFCS size | 24 |
|-----------|----|

| | |
|-------|--|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.49a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 |

6.11.6.4.1.49a.2 Downlink

6.11.6.4.1.49a.2.1 Transport channel parameters

6.11.6.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.49a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 24 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.49a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 7 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 916 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.50.1 Uplink

6.11.6.4.1.50.1.1 Transport channel parameters

6.11.6.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.50.1.1.3 TFCS

| | |
|--|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.50.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 1time slot + SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 784 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.60 |

6.11.6.4.1.50.2 Downlink

6.11.6.4.1.50.2.1 Transport channel parameters

6.11.6.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.50.2.1.3 TFCS

| | |
|--|---|
| TFCS size | 8 |
| TFCS | (64 kbps RAB, 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.50.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 6codes x 2 time slots |
| | Max. Number of data bits/radio frame | 2 912 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.11.6.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.51.1 Uplink

6.11.6.4.1.51.1.1 Transport channel parameters

6.11.6.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.51.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.44 (alt. 0.40) |

6.11.6.4.1.51.2 Downlink

6.11.6.4.1.51.2.1 Transport channel parameters

6.11.6.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.51.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.51.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2 192 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.51a.1 Uplink

6.11.6.4.1.51a.1.1 Transport channel parameters

6.11.6.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51a.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 (alt. 12) |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.51a.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 |

6.11.6.4.1.51a.2 Downlink

6.11.6.4.1.51a.2.1 Transport channel parameters

6.11.6.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.51a.2.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 |
| TFCS | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.51a.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 640 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 |

6.11.6.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.51b.1 Uplink

6.11.6.4.1.51b.1.1 Transport channel parameters

6.11.6.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.1.1.1.

6.11.6.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51b.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.51b.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bit |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 |

6.11.6.4.1.51b.2 Downlink

See clause 6.11.6.4.1.51.2.

6.11.6.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.52.1 Uplink

See clause 6.11.6.4.1.51.1.

6.11.6.4.1.52.2 Downlink

6.11.6.4.1.52.2.1 Transport channel parameters

6.11.6.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

6.11.6.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.52.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.52.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|--|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | {SF32 x 8 codes x 1 time slot} + {SF32 x 5 codes x 1 time slot} |
| | Max. Number of data bits/radio frame | 3 156 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.44 |

6.11.6.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.53.1 Uplink

6.11.6.4.1.53.1.1 Transport channel parameters

6.11.6.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

6.11.6.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.53.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 20 |
| TFCS | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.11.6.4.1.53.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 2 timeslots |
| | Max. Number of data bits/radio frame | 3 760 bits |
| | TFCl code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

6.11.6.4.1.53.2 Downlink

See clause 6.11.6.4.1.52.2.

- 6.11.6.4.1.54 Void
- 6.11.6.4.1.55 Void
- 6.11.6.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.1.56.1 Uplink
- 6.11.6.4.1.56.1.1 Transport channel parameters
- 6.11.6.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------------------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 (alt. 128) | 320 (alt.128) | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 (alt. 148) | | |
| | TFS | TF0, bits | 0x340 (alt. 0x148) | |
| | | TF1, bits | 1x340 (alt. 1x148) | |
| | | TF2, bits | N/A (alt. 5x148) | |
| | TTI, ms | 40 (alt. 80) | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 (alt. 2 472) | | |
| | Max number of bits/radio frame before rate matching | 270 (alt. 309) | | |
| RM attribute | 135 to 175 | | | |

6.11.6.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.56.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 (alt. 6) |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) (alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.56.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 226 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.48) |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits (alt. 16 bits).

- 6.11.6.4.1.56.2 Downlink
- 6.11.6.4.1.56.2.1 Transport channel parameters
- 6.11.6.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|-------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 8 000 | 8 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | TTI, ms | 40 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 1 080 | | |
| | Max number of bits/radio frame before rate matching | 270 | | |
| | RM attribute | 135 to 175 | | |

- 6.11.6.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

- 6.11.6.4.1.56.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 4 |
| TFCS | (8 kbps RAB + 8 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

- 6.11.6.4.1.56.2.2 Physical channel parameters

| | | |
|---------------|---|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |
| NOTE: | In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. | |

- 6.11.6.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.11.6.4.1.57.1 Uplink

- 6.11.6.4.1.57.1.1 Transport channel parameters

- 6.11.6.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.11.6.4.1.38d.1.1.2.

- 6.11.6.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

- 6.11.6.4.1.57.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.57.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 2 064 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 (alt. 0.76) |

6.11.6.4.1.57.2 Downlink

6.11.6.4.1.57.2.1 Transport channel parameters

6.11.6.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB | |
|--------------|---|--------------------------------|--------|--|
| RLC | Logical channel type | DTCH | DTCH | |
| | RLC mode | AM | AM | |
| | Payload sizes, bit | 320 | 320 | |
| | Max data rate, bps | 64 000 | 64 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 3x340 | |
| | | TF4, bits | 4x340 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI after channel coding | 4 284 | | |
| | Max number of bits/radio frame before rate matching | 2 142 | | |
| RM attribute | 130 to 170 | | | |

6.11.6.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.57.2.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 10 |
| TFCS | (64 kbps RAB + 64 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.57.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 364 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.56 |

- 6.11.6.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.1.58.1 Uplink
- 6.11.6.4.1.58.1.1 Transport channel parameters
- 6.11.6.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 16 000 | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 336 | |
| | TFS | TF0, bits | 0x336 |
| | | TF1, bits | 1x336 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 068 | |
| | Max number of bits/radio frame before rate matching | 534 | |
| | RM attribute | 135 to 175 | |

- 6.11.6.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

- 6.11.6.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

- 6.11.6.4.1.58.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 8 (alt. 12) |
| TFCS | (16 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) (alt. (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

- 6.11.6.4.1.58.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|---|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot + SF32 x 1code x 1 time slot |
| | Max. Number of data bits/radio frame | 696 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.72 (alt. 0.68) |

- 6.11.6.4.1.58.2 Downlink
- 6.11.6.4.1.58.2.1 Transport channel parameters
- 6.11.6.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| | | | |
|--------------|---|-----------|-------|
| Higher layer | RAB/Signalling RB | RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 64 000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8 076 | |
| | Max number of bits/radio frame before rate matching | 2 019 | |
| RM attribute | 125 to 165 | | |

6.11.6.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.58.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 16 |
| TFCS | (64 kbps RAB, 8 kbps RAB, DCCH)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.58.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF32 x 6 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1 640 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.64 |

6.11.6.4.1.59 Reserved for future use

6.11.6.4.1.60 Reserved for future use

6.11.6.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.61.1 Uplink

6.11.6.4.1.61.1.1 Transport channel parameters

6.11.6.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

| | | |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 320 |

| | | | |
|---|---|------------------|------------------------|
| | Max data rate, bps | 8 000 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 328 (alt 0, 328) | |
| | TFS | TF0, bits | 0x328 (alt 1x0) (note) |
| | | TF1, bits | 1x328 |
| | TTI, ms | 40 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 1 044 | |
| | Max number of bits/radio frame before rate matching | 261 | |
| RM attribute | 135 to 175 | | |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBIs are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). | | | |

6.11.6.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.61.1.1.4 TFCS

| | |
|---|--|
| TFCS size | 8 (alt. 12) |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. | |

6.11.6.4.1.61.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 1024 chips |
| | Codes and time slots | SF16 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 452 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.68 (alt. 0.64) |

6.11.6.4.1.61.2 Downlink

6.11.6.4.1.61.2.1 Transport channel parameters

6.11.6.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

| | | |
|--------------|----------------------|------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 8 000 |
| | AMD PDU header, bit | 8 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 328 (alt 0, 328) |
| | TFS | TF0, bits |

| | | |
|--|---|------------|
| | TF1, bits | 1x328 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1 044 |
| | Max number of bits/radio frame before rate matching | 261 |
| | RM attribute | 135 to 175 |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.11.6.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.61.2.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 8 |
| TFCS | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

6.11.6.4.1.61.2.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.68 |

6.11.6.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.6.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.6.4.2.1.1 Uplink

6.11.6.4.2.1.1.1 Transport channel parameters

6.11.6.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

| | | | | |
|--------------|-------------------------|----------------|---------------------|-------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | TM | |
| | Payload sizes, bit | 320 (alt. 128) | 168 | |
| | Max data rate, bps | 64 000 | 16 800 | |
| | AMD/TrD PDU header, bit | 16 | 0 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | USCH | USCH | |
| | TB sizes, bit | 337 (alt. 145) | 169 | |
| | TFS | TF0, bits | 0x337 (alt. 0x145) | 0x169 |
| | | TF1, bits | 1x337 (alt. 1x145) | 1x169 |
| | | TF2, bits | 2x337 (alt. 3x145) | N/A |
| | | TF3, bits | 3x337 (alt. 7x145) | N/A |
| | | TF4, bits | 4x337 (alt. 10x145) | N/A |
| | TTI, ms | 20 | 10 | |
| | Coding type | TC | CC 1/2 | |
| | CRC, bit | 16 | 16 | |

| | | | |
|--|---|--------------------|------------|
| | Max number of bits/TTI after channel coding | 4 248 (alt. 4 842) | 386 |
| | Max number of bits/radio frame before rate matching | 2 124 (alt. 2 421) | 386 |
| | RM attribute | 135 to 175 | 230 to 250 |

6.11.6.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

| | | | | | |
|--------------|---|--------------------------------|--------------|------------------------------|-----------------------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 5 | 5 | 5 | 5 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | USCH | | | |
| | TB sizes, bit | 149 | | | |
| | TFS | TF0, bits | 0x149 | | |
| | | TF1, bits | 1x149 | | |
| | TTI, ms | 40 | | | |
| | Coding type | CC 1/3 | | | |
| | CRC, bit | 16 | | | |
| | Max number of bits/TTI before rate matching | 519 | | | |
| | Max number of bits/radio frame before rate matching | 130 | | | |
| | RM attribute | 190 to 210 | | | |

6.11.6.4.2.1.1.1.3 TFCS for USCH

| | |
|-----------|---|
| TFCS size | 20 |
| TFCS | (64 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) |

6.11.6.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

6.11.6.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

| | | | | | | | |
|--------------|---|--------------------------------|--------------|--------------|------------------------------|-----------------------------|--------------|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#0 RRC | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio | SRB#5 RRC |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH |
| | RLC mode | TM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 168 | 136 | 128 | 128 | 128 | 168 |
| | Max data rate, bps | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 | 16 800 |
| | AMD/UMD/TrD PDU header, bit | 0 | 8 | 16 | 16 | 16 | 0 |
| MAC | MAC header, bit | 2 | 26 | 26 | 26 | 26 | 2 |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | RACH | | | | | |
| | TB sizes, bit | 170 | | | | | |
| | TFS TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | |
| | Coding type | CC 1/2 | | | | | |
| | CRC, bit | 16 | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | |
| | Max number of bits/radio frame before rate matching | 388 | | | | | |

6.11.6.4.2.1.1.4.2 RACH transport channel configuration with DTCH

| | | | | | | | | |
|--------------|---|-----------------------------------|--------|--------|--------|---------------------|--------------------|--------|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH |
| | RLC mode | AM | TM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 128 | 168 | 136 | 128 | 128 | 128 | 168 |
| | Max data rate, bps | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 | 16 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 | 0 |
| MAC | MAC header, bit | 26 | 2 | 26 | 26 | 26 | 26 | 2 |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS | TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/radio frame before rate matching | 388 | | | | | | |

6.11.6.4.2.1.1.2 Physical channel parameters

6.11.6.4.2.1.1.2.1 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.60 (alt. 0.56) |

6.11.6.4.2.1.1.2.2 Physical channel parameters for PRACH

| | | |
|-------|--------------------------------------|---|
| PRACH | Midamble | 1024 chips |
| | Codes and time slots | SF16 (alt. SF32) x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 464 (alt. 232) |
| | Puncturing Limit | 1 (alt. 0.56) |

6.11.6.4.2.1.2 Downlink

6.11.6.4.2.1.2.1 Transport channel parameters

6.11.6.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| | | | |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 |
| RLC | Logical channel type | DTCH | SHCCH |
| | RLC mode | AM | UM |
| | Payload sizes, bit | 320 | 160 |
| | Max data rate, bps | 256 000 | 16 000 |
| | AMD/UMD PDU header, bit | 16 | 8 |
| MAC | MAC header, bit | 1 | 1 |
| | MAC multiplexing | N/A | N/A |
| Layer 1 | TrCH type | DSCH | DSCH |
| | TB sizes, bit | 337 | 169 |

| | | | | |
|--|---|---------------------|-------------------|-------|
| | TFS | TF0, bits | 0x337 | 0x169 |
| | | TF1, bits | 1x337 | 1x169 |
| | | TF2, bits | 2x337 | N/A |
| | | TF3, bits | 4x337 | N/A |
| | | TF4, bits | 8x337 | N/A |
| | | TF5, bits | N/A (alt. 12x337) | N/A |
| | | TF6, bits | N/A (alt. 16x337) | N/A |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| | CRC, bit | 16 | 16 | |
| | Max number of bits/TTI after channel coding | 8 484 (alt. 16 968) | 386 | |
| | Downlink: Max number of bits/radio frame before rate matching | 8 484 (alt. 8 484) | 386 | |
| | RM attribute | 135 to 175 | 230 to 250 | |

6.11.6.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

| | | | | | | |
|--------------|---|--------------------------------|--------------|------------------------------|-----------------------------|--|
| Higher layer | RAB/signalling RB User of Radio Bearer | SRB#1 RRC | SRB#2 RRC | SRB#3 NAS_DT High prio | SRB#4 NAS_DT Low prio | |
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH | |
| | RLC mode | UM | AM | AM | AM | |
| | Payload sizes, bit | 136 | 128 | 128 | 128 | |
| | Max data rate, bps | 3 400 | 3 200 | 3 200 | 3 200 | |
| | AMD/UMD PDU header, bit | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | 5 | 5 | 5 | 5 | |
| | MAC multiplexing | 4 logical channel multiplexing | | | | |
| Layer 1 | TrCH type | DSCH | | | | |
| | TB sizes, bit | 149 | | | | |
| | TFS | TF0, bits | 0x149 | | | |
| | | TF1, bits | 1x149 | | | |
| | TTI, ms | 40 | | | | |
| | Coding type | CC 1/3 | | | | |
| | CRC, bit | 16 | | | | |
| | Max number of bits/TTI before rate matching | 519 | | | | |
| | Max number of bits/radio frame before rate matching | 130 | | | | |
| | RM attribute | 155 to 165 | | | | |

6.11.6.4.2.1.2.1.3 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 20 (alt. 28) |
| TFCS | (256 kbps RAB, SHCCH, SRB for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1)) |

6.11.6.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.11.6.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

| | | | | | | | | | |
|---|---|--------------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 | |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC | |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH | |
| | RLC mode | UM | UM | AM | AM | AM | UM | TM | |
| | Payload sizes, bit | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 8 | 8 | 16 | 16 | 16 | 8 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 | |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | |
| | TB sizes, bit | 171 | | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits | 2x171 | | | | | | |
| | | TF3, bits | 3x171(alt. N/A) | | | | | | |
| | | TF4, bits | 4x171(alt. N/A) | | | | | | |
| | TTI, ms | 20 | | | | | | | |
| | Coding type | TC | | | | | | | |
| | CRC, bit | 16 | | | | | | | |
| | Max number of bits/TTI after channel coding | 2 256 (alt. 1 134) | | | | | | | |
| Max number of bits/radio frame before rate matching | 1 128 (alt. 567) | | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | | |

6.11.6.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| | | | | | | | | | | |
|---|---|-----------------------------------|-------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 | |
| | User of Radio Bearer | Interactive/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | RRC | |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH | |
| | RLC mode | AM | UM | UM | AM | AM | AM | UM | TM | |
| | Payload sizes, bit | 320 | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 16 | 8 | 8 | 16 | 16 | 16 | 8 | 0 | |
| MAC | MAC header, bit | 27 | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 | |
| | MAC multiplexing | 8 logical channel multiplexing | | | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | | | |
| | TB sizes, bit | 171, 363 | | | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | | | |
| | | TF1, bits | 1x171 | | | | | | | |
| | | TF2, bits | 2x171 | | | | | | | |
| | | TF3, bits | 1x363 | | | | | | | |
| | | TF4, bits | 3x171 (alt N/A) | | | | | | | |
| | | TF5, bits | 4x171 (alt. N/A) | | | | | | | |
| | | TF6, bits | 2x363 (alt. N/A) | | | | | | | |
| | TTI, ms | 20 | | | | | | | | |
| | Coding type | TC | | | | | | | | |
| | CRC, bit | 16 | | | | | | | | |
| | Max number of bits/TTI after channel coding | 2 286 (alt. 1 149) | | | | | | | | |
| Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | | | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | | | |

6.11.6.4.2.1.2.1.5 TFCS for FACH

6.11.6.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

6.11.6.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

| | |
|-----------|---|
| TFCS size | 7 (alt. 4) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3)) |

6.11.6.4.2.1.2.2 Physical channel parameters

6.11.6.4.2.1.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.44 |

6.11.6.4.2.1.2.2.2 Physical channel parameters for SCCPCH

6.11.6.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

| | | |
|--------|--------------------------------------|--|
| SCCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |
| | Puncturing Limit | 1 (alt. 0.84) |

6.11.6.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| | | |
|--------|--------------------------------------|--|
| SCCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472 bits) |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 1 (alt. 0.80) |

6.11.6.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.6.4.2.2.1 Uplink

See clause 6.11.6.4.2.1.1.

6.11.6.4.2.2.2 Downlink

6.11.6.4.2.2.2.1 Transport channel parameters

6.11.6.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| | | | |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 |
| RLC | Logical channel type | DTCH | SHCCH |
| | RLC mode | AM | UM |
| | Payload sizes, bit | 320 | 160 |
| | Max data rate, bps | 384 000 | 16 000 |
| | AMD/UMD PDU header, bit | 16 | 8 |

| | | | | |
|---|----------------------|-------------------|-------------------|-------|
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DSCH | DSCH | |
| | TB sizes, bit | 337 | 169 | |
| | TFS | TF0, bits | 0x337 | 0x169 |
| | | TF1, bits | 1x337 | 1x169 |
| | | TF2, bits | 2x337 | N/A |
| | | TF3, bits | 4x337 | N/A |
| | | TF4, bits | 8x337 | N/A |
| | | TF5, bits | 12x337 | N/A |
| | | TF6, bits | N/A (alt. 16x337) | N/A |
| | | TF7, bits | N/A (alt. 20x337) | N/A |
| | TF8, bits | N/A (alt. 24x337) | N/A | |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| | CRC, bit | 16 | 16 | |
| Max number of bits/TTI after channel coding | 12 720 (alt. 25 440) | 386 | | |
| Downlink: Max number of bits/radio frame before rate matching | 12 720 (alt. 12 720) | 386 | | |
| RM attribute | 135 to 175 | 230 to 250 | | |

6.11.6.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.2.

6.11.6.4.2.2.1.3 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 24 (alt. 36) |
| TFCS | (384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)) |

6.11.6.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.11.6.4.2.1.2.1.4.

6.11.6.4.2.2.1.5 TFCS for FACH

See clause 6.11.6.4.2.1.2.1.5.

6.11.6.4.2.2.2 Physical channel parameters

6.11.6.4.2.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits (alt. 6 592 bits) |
| | TFCI code word | 16 bits (alt. 32 bits) |
| | Puncturing Limit | 0.48 |

6.11.6.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.

6.11.6.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.6.4.2.3.1 Uplink

See clause 6.11.6.4.2.1.1.

6.11.6.4.2.3.2 Downlink

6.11.6.4.2.3.2.1 Transport channel parameters

6.11.6.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
|---|-------------------------|-------------------|----------------------|-------|
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | UM | |
| | Payload sizes, bit | 640 | 160 | |
| | Max data rate, bps | 2 048 000 | 16 000 | |
| | AMD/UMD PDU header, bit | 16 | 8 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | DSCH | DSCH | |
| | TB sizes, bit | 657 | 169 | |
| | TFS | TF0, bits | 0x657 | 0x169 |
| | | TF1, bits | 1x657 | 1x169 |
| | | TF2, bits | 2x657 | N/A |
| | | TF3, bits | 4x657 | N/A |
| | | TF4, bits | 8x657 | N/A |
| | | TF5, bits | 12x657 | N/A |
| | | TF6, bits | 16x657 | N/A |
| | | TF7, bits | 20x657 | N/A |
| | | TF8, bits | 24x657 | N/A |
| | | TF9, bits | 28x657 | N/A |
| | | TF10, bits | 30x657 (alt. 32x657) | N/A |
| | | TF11, bits | N/A (alt. 36x657) | N/A |
| | | TF12, bits | N/A (alt. 40x657) | N/A |
| | | TF13, bits | N/A (alt. 44x657) | N/A |
| | | TF14, bits | N/A (alt. 48x657) | N/A |
| | | TF15, bits | N/A (alt. 52x657) | N/A |
| | | TF16, bits | N/A (alt. 56x657) | N/A |
| | | TF17, bits | N/A (alt. 60x657) | N/A |
| | TF18, bits | N/A (alt. 64x657) | N/A | |
| | TTI, ms | 10 (alt. 20) | 10 | |
| | Coding type | TC | CC 1/2 | |
| CRC, bit | 16 | 16 | | |
| Max number of bits/TTI after channel coding | 60 624 (alt. 129 330) | 386 | | |
| Downlink: Max number of bits/radio frame before rate matching | 60 624 (alt. 64 665) | 386 | | |
| RM attribute | 135 to 175 | 230 to 250 | | |

6.11.6.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.2.

6.11.6.4.2.3.2.1.3 TFCS for DSCH

| | |
|-----------|--|
| TFCS size | 41 (alt.76) |
| TFCS | (2 048 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), |

| |
|--|
| (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0),(TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1, TF0),(TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1), (TF11, TF0, TF1), (TF12, TF0, TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1), (TF16, TF0, TF1), (TF17, TF0, TF1), (TF18, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1, TF1),(TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (TF15, TF1, TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1)) |
|--|

6.11.6.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.2.1.2.1.4.1.

6.11.6.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.6.4.2.1.2.1.45.1.

6.11.6.4.2.3.2.2 Physical channel parameters

6.11.6.4.2.3.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|---------------------------------|
| PDSCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 12 codes x 11 time slots |
| | Max. Number of data bits/radio frame | 36 400 bits |
| | TFCI code word | 32 bits |
| | Puncturing Limit | 0.56 (alt. 0.52) |

6.11.6.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.2.4 Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.6.4.2.4.1 Uplink

6.11.6.4.2.4.1.1 Transport channel parameters

6.11.6.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| | | | | |
|--------------|-------------------------|----------------|--------------------|-------|
| Higher layer | RAB/Signalling RB | RAB | SRB#5 | |
| RLC | Logical channel type | DTCH | SHCCH | |
| | RLC mode | AM | TM | |
| | Payload sizes, bit | 320 (alt. 128) | 168 | |
| | Max data rate, bps | 384 000 | 16 800 | |
| | AMD/TrD PDU header, bit | 16 | 0 | |
| MAC | MAC header, bit | 1 | 1 | |
| | MAC multiplexing | N/A | N/A | |
| Layer 1 | TrCH type | USCH | USCH | |
| | TB sizes, bit | 337 (alt. 145) | 169 | |
| | TFS | TF0, bits | 0x337 (alt. 0x145) | 0x169 |
| | | TF1, bits | 1x337 (alt. 1x145) | 1x169 |

| | | | |
|--|---|----------------------|------------|
| | TF2, bits | 2x337 (alt. 5x145) | N/A |
| | TF3, bits | 4x337 (alt. 10x145) | N/A |
| | TF4, bits | 8x337 (alt. 20x145) | N/A |
| | TF5, bits | 12x337 (alt. 30x145) | N/A |
| | TF6, bits | 16x337 (alt. 40x145) | N/A |
| | TF7, bits | 20x337 (alt. 50x145) | N/A |
| | TF8, bits | 24x337 (alt. 60x145) | N/A |
| | TTI, ms | 20 | 10 |
| | Coding type | TC | CC 1/2 |
| | CRC, bit | 16 | 16 |
| | Max number of bits/TTI after channel coding | 25 440 (alt. 29 004) | 386 |
| | Max number of bits/radio frame before rate matching | 12 720 (alt. 14 502) | 386 |
| | RM attribute | 135 to 175 | 230 to 250 |

6.11.6.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.11.6.4.2.1.1.1.2.

6.11.6.4.2.4.1.1.3 TFCS for USCH

| | |
|-----------|---|
| TFCS size | 36 |
| TFCS | (384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1) (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1) |

6.11.6.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.11.6.4.2.1.1.1.4.

6.11.6.4.2.4.1.2 Physical channel parameters

6.11.6.4.2.4.1.2.1 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|-----------------------------|
| PUSCH | Midamble | 1024 chips |
| | Codes and time slots | SF2 x 1 code x 2 time slots |
| | Max. Number of data bits/radio frame | 7 264 bits |
| | TFCI code word | 32 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 (alt. 0.44) |

6.11.6.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.11.6.4.2.1.1.2.2.

6.11.6.4.2.4.2 Downlink

6.11.6.4.2.4.2.1 Transport channel parameters

See clause 6.11.6.4.2.3.2.1.

6.11.6.4.2.4.2.2 Physical channel parameters

6.11.6.4.2.4.2.2.1 Physical channel parameters for PDSCH

| | | |
|-------|----------|-----------|
| PDSCH | Midamble | 512 chips |
|-------|----------|-----------|

| | | |
|--|--------------------------------------|------------------------------|
| | Codes and time slots | SF1 x 1 codes x 4 time slots |
| | Max. Number of data bits/radio frame | 35 296 bits |
| | TFCI code word | 32 bits |
| | Puncturing Limit | 0.56 (alt. 0.52) |

6.11.6.4.2.4.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.11.6.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps
 SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL:
 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH SHCCH and
 BCCH

6.11.6.4.3.1.1 Uplink

6.11.6.4.3.1.1.1 Transport channel parameters

6.11.6.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.3.1.1.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.1.1.3.

6.11.6.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB
 and UL SRB for SHCCH mapped on USCH

See clause 6.11.6.4.2.1.1.1.1.

6.11.6.4.3.1.1.1.5 TFCS for USCH

| | |
|-----------|--|
| TFCS size | 10 |
| TFCS | (64 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.11.6.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

| | | | |
|--------------|---|--------------------------------|--------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#5 |
| | User of Radio Bearer | RRC | RRC |
| RLC | Logical channel type | CCCH | SHCCH |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 168 | 168 |
| | Max data rate, bps | 16 800 | 16 800 |
| | TrD PDU header, bit | 0 | 0 |
| MAC | MAC header, bit | 2 | 2 |
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | RACH | |
| | TB sizes, bit | 170 | |
| | TFS | TF0, bits | |
| | TTI, ms | 10 | |
| | Coding type | CC 1/2 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 388 | |
| | Max number of bits/radio frame before rate matching | 388 | |

6.11.6.4.3.1.1.2 Physical channel parameters

6.11.6.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.11.6.4.1.4.1.2.

6.11.6.4.3.1.1.2.2 Physical channel parameters for PUSCH

| | | |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 1 808 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.76 (alt. 0.68) |

6.11.6.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.11.6.4.2.1.1.2.2.

6.11.6.4.3.1.2 Downlink

6.11.6.4.3.1.2.1 Transport channel parameters

6.11.6.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.3.1.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.1.

6.11.6.4.3.1.2.1.5 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 10 (alt. 14) |
| TFCS | (256 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |

6.11.6.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| | | | | |
|--------------|-------------------------|--------------------------------|----------------------|----------------------|
| Higher layer | RAB/Signalling RB | SRB#0 | SRB#5 | SRB#6 |
| | User of Radio Bearer | RRC | RRC | RRC |
| RLC | Logical channel type | CCCH | SHCCH | BCCH |
| | RLC mode | UM | UM | TM |
| | Payload sizes, bit | 160 | 160 | 168 |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
| | UMD/TrD PDU header, bit | 8 | 8 | 0 |
| MAC | MAC header, bit | 3 | | |
| | MAC multiplexing | 3 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 171 | | |
| | TFS | TF0, bits | 0x171 | |
| | | TF1, bits | 1x171 | |

| | | |
|--|---|--------------------|
| | TF2, bits | 2x171 |
| | TF3, bits | 3x171 (alt. N/A) |
| | TF4, bits | 4x171 (alt. N/A) |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 2 256 (alt. 1 134) |
| | Max number of bits/radio frame before rate matching | 1 128 (alt 567) |

6.11.6.4.3.1.2.1.7 TFCS for FACH

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

6.11.6.4.3.1.2.2 Physical channel parameters

6.11.6.4.3.1.2.2.1 Physical channel parameters for DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.3.1.2.2.2 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 4 400 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.48 |

6.11.6.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.6.4.3.2.1 Uplink

See clause 6.11.6.4.3.1.1.

6.11.6.4.3.2.2 Downlink

6.11.6.4.3.2.2.1 Transport channel parameters

6.11.6.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.3.2.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.2.2.1.1.

6.11.6.4.3.2.2.1.5 TFCS for DSCH

| | |
|-----------|---|
| TFCS size | 12 (alt. 18) |
| TFCS | (384 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |

6.11.6.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.3.1.2.1.6.

6.11.6.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.6.4.3.1.2.1.7.

6.11.6.4.3.2.2.2 Physical channel parameters

6.11.6.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.3.2.2.2.2 Physical channel parameters for PDSCH

| | | |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 6 608 bits |
| | TFCI code word | 16 bits |
| | Puncturing Limit | 0.48 |

6.11.6.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps
SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL:
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and
BCCH

6.11.6.4.3.3.1 Uplink

See clause 6.11.6.4.3.1.1.

6.11.6.4.3.3.2 Downlink

6.11.6.4.3.3.2.1 Transport channel parameters

6.11.6.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.3.3.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS
RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.3.2.1.1.

6.11.6.4.3.3.2.1.5 TFCS for DSCH

| | |
|-----------|--|
| TFCS size | 22 (alt. 38) |
| TFCS | (2 048 kbps RAB, SHCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1)) |

6.11.6.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.3.1.2.1.6.

6.11.6.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.6.4.3.1.2.1.7.

6.11.6.4.3.3.2.2 Physical channel parameters

6.11.6.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.3.3.2.2.2 Physical channel parameters for PDSCH

| | | |
|---------------|--------------------------------------|----------------------------|
| DPCH Downlink | Midamble | 512 chips |
| | Codes and time slots | SF1 x 1 code x 4 time slot |
| | Max. Number of data bits/radio frame | 35 312 bits (alt. 35 296) |
| | TFCI code word | 16 bits (alt. 32 bits) |
| | Puncturing limit | 0.56 (alt. 0.52) |

6.11.6.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.4 Combinations on SCCPCH

6.11.6.4.4.1 Stand-alone signalling RB for PCCH

6.11.6.4.4.1.1 Transport channel parameters

6.11.6.4.4.1.1.1 Transport channel parameter of SRB for PCCH

| | | | |
|--------------|----------------------|---------------------|-------------------|
| Higher layer | RAB/signalling RB | SRB | |
| | User of Radio Bearer | RRC | |
| RLC | Logical channel type | PCCH | |
| | RLC mode | TM | |
| | Payload sizes, bit | 240 (alt. 80) | |
| | Max data rate, bps | 12 000 (alt. 8 000) | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | PCH | |
| | TB sizes, bit | 240 (alt. 80) | |
| | TFS | TF0, bts | 0x240 (alt. 0x80) |
| | | TF1, bits | 1x240 (alt. 1x80) |
| | | TF2, bits | N/A (alt. 2x80) |
| | TTI, ms | 20 | |

| | |
|---|----------------|
| Coding type | CC 1/2 |
| CRC, bit | 16 |
| Max number of bits/TTI before rate matching | 528 (alt. 400) |
| Max number of bits/radio frame before rate matching | 264 (alt. 200) |
| RM attribute | 210 to 250 |

6.11.6.4.4.1.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 2 (alt. 3) |
| TFCS | SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2)) |

6.11.6.4.4.1.2 Physical channel parameters

| | | |
|---------|--------------------------------------|--|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot (alt. SF32 x 1 code x 1 time slot) |
| | Max. Number of data bits/radio frame | 480 bits (alt. 236 bits) |
| | TFCI code word | 8 bits |
| | Puncturing limit | 1 |

6.11.6.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.2.1 Transport channel parameters

6.11.6.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| | | | |
|--------------|---|-----------------------------|------------------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | Interactive/ Background RAB | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 320 | |
| | Max data rate, bps | 32 000 (alt. 16 000) | |
| | AMD PDU header, bit | 16 | |
| MAC | MAC header, bit | 27 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 363 | |
| | TFS | TF0, bits | 0 x363 |
| | | TF1, bits | 1x363 |
| | | TF2, bits | 2x363 (alt. N/A) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 2 286 (alt. 1 149) | |
| | Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | |
| | RM attribute | 110 to 150 | |

6.11.6.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| | | | | | | | |
|--------------|----------------------|-------|----------------------|-------|---------------------|--------------------|-------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High_prio | NAS_DT Low_prio | RRC |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH |
| | RLC mode | UM | UM | AM | AM | AM | TM |
| | Payload sizes, bit | 160 | 136 or 120 (note) | 128 | 128 | 128 | 168 |

| | | | | | | | | |
|---|---|--------------------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|--|
| | Max data rate, bps | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 24 000 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 33 600 (alt. 16 800) | |
| | AMD/UMD/TrD PDU header, bit | 8 | 8 | 16 | 16 | 16 | 0 | |
| MAC | MAC header, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | FACH | | | | | | |
| | TB sizes, bit | 171 | | | | | | |
| | TFS | TF0, bits | 0x171 | | | | | |
| | | TF1, bits | 1x171 | | | | | |
| | | TF2, bits | 2x171 | | | | | |
| | | TF3, bits | 3x171 (alt. N/A) | | | | | |
| | | TF4, bits | 4x171 (alt. N/A) | | | | | |
| | TTI, ms | 20 | | | | | | |
| | Coding type | TC | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI before rate matching | 2 256 (alt. 1 134) | | | | | | |
| Max number of bits/radio frame before rate matching | 1 128 (alt. 567) | | | | | | | |
| RM attribute | 200 to 240 | | | | | | | |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. | | | | | | | | |

6.11.6.4.4.2.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt. 4) |
| TFCS | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0)) |
| NOTE: | First TFCS applies when the alternative for the 3 2kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

6.11.6.4.4.2.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 (alt. 0.48) |

6.11.6.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.2a.1 Transport channel parameters

6.11.6.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

| | | | |
|--------------|----------------------|----------------------------|----------------------------|
| Higher layer | RAB/Signalling RB | RAB | RAB |
| | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB |
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |
| | Max data rate, bps | 32 000 (alt. 16 000) | 32 000 (alt. 16 000) |
| | AMD PDU header, bit | 16 | 16 |
| MAC | MAC header, bit | 27 | 27 |

| | | | |
|--------------|---|--------------------------------|------------------|
| | MAC multiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 363 | |
| | TFS | TF0, bits | 0x363 |
| | | TF1, bits | 1x363 |
| | | TF2, bits | 2x363 (alt. N/A) |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 2 286 (alt. 1 149) | |
| | Max number of bits/radio frame before rate matching | 1 143 (alt. 575) | |
| RM attribute | 110 to 150 | | |

6.11.6.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.2a.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 9 (alt. 4) |
| TFCS | (32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0)) |
| NOTE: | First TFCS applies when the alternative for the 32 kbps RABs and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RABs and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

6.11.6.4.4.2a.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 472) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.60 (alt. 0.48) |

6.11.6.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.2b.1 Transport channel parameters

6.11.6.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.2b.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 5 (alt. 3) |
| TFCS | (SRBs for CCCH/DCCH/BCCH) = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2)) |

6.11.6.4.4.2b.2 Physical channel parameters

| | | |
|---------|--------------------------------------|---|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |

| | | | |
|--|------------------|--|---------------|
| | Puncturing limit | | 1 (alt. 0.84) |
|--|------------------|--|---------------|

6.11.6.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.3.1 Transport channel parameters

6.11.6.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.11.6.4.4.2.1.1.

6.11.6.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.11.6.4.4.1.1.1.

6.11.6.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.3.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 30 (alt. 8) |
| TFCS | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) = (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4) (alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0)) |
| NOTE: | Alt. TFCS applies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all configured. |

6.11.6.4.4.3.2 Physical channel parameters

| | | |
|---------|---|---|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 936 bits (alt. 472 bits) |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.52 (alt. 0.56) |
| NOTE: | Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/ BCCH are both configured. | |

6.11.6.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.3a.1 Transport channel parameters

6.11.6.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.11.6.4.4.1.1.1.

6.11.6.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.3a.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 10 (alt.7) |
| TFCS | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1)) |
| NOTE: | Alt. TFCS applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured. |

6.11.6.4.4.3a.2 Physical channel parameters

| | | |
|--|--------------------------------------|---|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
| | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits) |
| | TFCI code word | 16 bits (alt. 8 bits) |
| | Puncturing limit | 0.84 (alt. 0.84) |
| NOTE: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured. | | |

6.11.6.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.6.4.4.4.1 Transport channel parameters

6.11.6.4.4.4.1.1 Transport channel parameters of RB for CTCH

| | | | |
|--------------|---|------------|-------|
| Higher layer | RAB/signalling RB | N/A | |
| | User of Radio Bearer | BMC | |
| RLC | Logical channel type | CTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 152 | |
| | Max data rate, bps | 15 200 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 3 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 163 | |
| | TFS | TF0, bits | 0x163 |
| | | TF1, bits | 1x163 |
| | | TF2, bits | 2x163 |
| | TTI, ms | 20 | |
| | Coding type | CC 1/3 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI before rate matching | 1 098 | |
| | Max number of bits/radio frame before rate matching | 549 | |
| | RM attribute | 200 to 240 | |

6.11.6.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| | | | | |
|--------------|---|--------------------------------|--------|--|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#5 | |
| | User of Radio Bearer | RRC | RRC | |
| RLC | Logical channel type | CCCH | BCCH | |
| | RLC mode | UM | TM | |
| | Payload sizes, bit | 160 | 168 | |
| | Max data rate, bps | 16 000 | 16 800 | |
| | AMD/UMD/TrD PDU header, bit | 8 | 0 | |
| MAC | MAC header, bit | 3 | 3 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | FACH | | |
| | TB sizes, bit | 171 | | |
| | TFS | TF0, bits | 0x171 | |
| | | TF1, bits | 1x171 | |
| | | TF2, bits | 2x171 | |
| | TTI, ms | 20 | | |
| | Coding type | TC | | |
| | CRC, bit | 16 | | |
| | Max number of bits/TTI before rate matching | 1 134 | | |
| | Max number of bits/radio frame before rate matching | 567 | | |
| | RM attribute | 200 to 240 | | |

6.11.6.4.4.4.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 4 |
| TFCS | (RB for CTCH, SRBs for CCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0) |

6.11.6.4.4.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 1024 chips |
| | Codes and time slots | SF32 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 472 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.80 |

6.11.6.4.4.5 64.8kbps RB for MTCH with 80 ms TTI

6.11.6.4.4.5.1 Transport channel parameters

6.11.6.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

| | | | |
|---|---|-----------|-------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 64800 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | TF8, bits | 8x664 | |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 16344 |
| Max number of bits/radio frame before rate matching | | 2043 | |
| RM attribute | | 160 | |

6.11.6.4.4.5.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 9 |
| TFCS | 64 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.11.6.4.4.5.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 1936 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.11.6.4.4.6 129.6kbps RB for MTCH with 80 ms TTI

6.11.6.4.4.6.1 Transport channel parameters

6.11.6.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 80 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 32679 | |
| Max number of bits/radio frame before rate matching | | 4085 | |
| RM attribute | | 160 | |

6.11.6.4.4.6.1.1 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.11.6.4.4.6.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 16 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 3888 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.11.6.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.11.6.4.4.7.1 Transport channel parameters

6.11.6.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

| | | | |
|---|----------------------|------------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 648 |
| | Max data rate, bps | | 129600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 664 |
| | TFS | TF0, bits | 0x664 |
| | | TF1, bits | 1x664 |
| | | TF2, bits | 2x664 |
| | | TF3, bits | 3x664 |
| | | TF4, bits | 4x664 |
| | | TF5, bits | 5x664 |
| | | TF6, bits | 6x664 |
| | | TF7, bits | 7x664 |
| | | TF8, bits | 8x664 |
| | | TF9, bits | 9x664 |
| | | TF10, bits | 10x664 |
| | | TF11, bits | 11x664 |
| | | TF12, bits | 12x664 |
| | | TF13, bits | 13x664 |
| | | TF14, bits | 14x664 |
| | | TF15, bits | 15x664 |
| | TF16, bits | 16x664 | |
| | TTI, ms | | 40 |
| Coding type | | TC | |
| CRC, bit | | 16 | |
| Max number of bits/TTI after channel coding | | 32679 | |
| Max number of bits/radio frame before rate matching | | 8170 | |
| RM attribute | | 160 | |

6.11.6.4.4.7.1.2 TFCS

| | |
|-----------|--|
| TFCS size | 17 |
| TFCS | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.11.6.4.4.7.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF1 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 7792 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.92 |

6.11.6.4.4.8 7.6 kbps signalling RB for MCCH

6.11.6.4.4.8.1 Transport channel parameters

6.11.6.4.4.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 7600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 160 |
| | TFS | TF0, bits | 0x160 |
| | | TF1, bits | 1x160 |
| | TTI, ms | | 20 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 552 |
| | Max number of bits/radio frame before rate matching | | 276 |
| | RM attribute | | 160 |

6.11.6.4.4.8.1.2 TFCS

| | |
|-----------|--------------------|
| TFCS size | 2 |
| TFCS | MBMS SRB =TF0, TF1 |

6.11.6.4.4.8.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 512 chips |
| | Codes and time slots | SF32 x 1 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 228 bits |
| | TFCl code word | 16 bits |
| | Puncturing limit | 0.80 |

6.11.6.4.4.9 124.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.9.1 Transport channel parameters

6.11.6.4.4.9.1.1 Transport channel parameters for 124 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 124400 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4993 |
| | TFS | TF0, bits | 0x4993 |
| | | TF1, bits | 1x4993 |
| | | TF2, bits | 2x4993 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 30078 |
| | Max number of bits/radio frame before rate matching | | 3760 |
| RM attribute | | 128 | |

6.11.6.4.4.9.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 124 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.9.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF32 x 8 codes x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 2096 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.54 |

6.11.6.4.4.10 320.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.10.1 Transport channel parameters

6.11.6.4.4.10.1.1 Transport channel parameters for 320 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4272 |
| | Max data rate, bps | | 320400 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4289 |
| | TFS | TF0, bits | 0x4289 |
| | | TF1, bits | 1x4289 |
| | | TF2, bits | 6x4289 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 77562 |
| | Max number of bits/radio frame before rate matching | | 9696 |
| RM attribute | | 128 | |

6.11.6.4.4.10.1.1 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 320 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.10.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF32 x 16 codes x 1 time slot |
| | Modulation | 16QAM |
| | Max. Number of data bits/radio frame | 8432 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.86 |

6.11.6.4.4.11 497.6 kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.11.1 Transport channel parameters

6.11.6.4.4.11.1.1 Transport channel parameters for 496 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 497600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 9 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4993 |
| | TFS | TF0, bits | 0x4993 |
| | | TF1, bits | 1x4993 |
| | | TF2, bits | 8x4993 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 120312 |
| | Max number of bits/radio frame before rate matching | | 15039 |
| RM attribute | | 128 | |

6.11.6.4.4.11.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 496 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.11.2 Physical channel parameters

| | | |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF1 x 1 codes x 2 time slots |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 16880 bits |
| | TFCI code word | (16,5) in first slot only |
| | Puncturing limit | 1 |

6.11.6.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

6.11.6.4.4.12.1 Transport channel parameters

6.11.6.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 72 |
| | Max data rate, bps | | 7200 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 80 |
| | TFS | TF0, bits | 0x80 |
| | | TF1, bits | 1x80 |
| | | TF2, bits | 2x80 |
| | | TF3, bits | 4x80 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1164 |
| | Max number of bits/radio frame before rate matching | | 291 |
| RM attribute | | 128 | |

6.11.6.4.4.12.1.2 TFCS

| | |
|-----------|------------------------------|
| TFCS size | 4 |
| TFCS | MBMS SRB =TF0, TF1, TF2, TF3 |

6.11.6.4.4.12.2 Physical channel parameters

| | | |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble | 640 chips (burst type 4) |
| | Codes and time slots | SF32 x 1 code x 1 time slot |
| | Modulation | QPSK |
| | Max. Number of data bits/radio frame | 248 bits |
| | TFCI code word | (16,5) |
| | Puncturing limit | 0.84 |

6.11.6.4.5 Combinations on PRACH

6.11.6.4.5.1 SRB for CCCH + SRB for DCCH

6.11.6.4.5.1.1 Transport channel parameters

6.11.6.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

| | | | | | | |
|--------------|-----------------------------|--------------------------------|--------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | RRC | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 5 logical channel multiplexing | | | | |

| | | | | | | | |
|---|---|-----------|--------|--|--|--|--|
| Layer 1 | TrCH type | | RACH | | | | |
| | TB sizes, bit | | 170 | | | | |
| | TFS | TF0, bits | 1x170 | | | | |
| | TTI, ms | | 10 | | | | |
| | Coding type | | CC 1/2 | | | | |
| | CRC, bit | | 16 | | | | |
| | Max number of bits/TTI after channel coding | | 388 | | | | |
| Max number of bits/Radio frame before rate matching | | 388 | | | | | |

6.11.6.4.5.1.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 1 |
| TFCS | SRBs for CCCH/ DCCH = (TF0) |

6.11.6.4.5.1.2 Physical channel parameters

| | | |
|-------|--------------------------------------|---|
| PRACH | Midamble | 1024 chips |
| | Codes and time slots | SF16 (alt. SF32) x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 488 bits (alt. 244 bits) |
| | Puncturing Limit | 1.0 (alt. 0.60) |

6.11.6.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.6.4.5.2.1 Transport channel parameters

| | | | | | | | |
|--|---|--------------------------------|--------|--------|--------|----------------------|---------------------|
| Higher layer | RAB/signalling RB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | Interactive/Background RAB | RRC | RRC | RRC | NAS_DT High priority | NAS_DT Low priority |
| RLC | Logical channel type | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 128 | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 26 | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | | RACH | | | | |
| | TB sizes, bit | | 170 | | | | |
| | TFS | TF0, bits | 1x170 | | | | |
| | TTI, ms | | 10 | | | | |
| | Coding type | | CC 1/2 | | | | |
| | CRC, bit | | 16 | | | | |
| | Max number of bits/TTI after channel coding | | 388 | | | | |
| Max number of bits/ Radio frame before rate matching | | 388 | | | | | |

6.11.6.4.5.2.2 Physical channel parameters

See clause 6.11.6.4.5.1.2.

6.11.6.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.6.4.5.3.1 Transport channel parameters

| | | | | | | | | |
|--------------|----------------------|----------------------------|----------------------------|-------|-------|-------|------------------|-----------------|
| Higher layer | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
| | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio |

| | | | | | | | | |
|---------|--|--------------------------------|--------|--------|--------|--------|--------|--------|
| RLC | Logical channel type | DTCH | DTCH | CCCH | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | AM | AM | TM | UM | AM | AM | AM |
| | Payload sizes, bit | 128 | 128 | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | 12 800 | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
| | AMD/UMD/TrD PDU header, bit | 16 | 16 | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | 26 | 26 | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | 7 logical channel multiplexing | | | | | | |
| Layer 1 | TrCH type | RACH | | | | | | |
| | TB sizes, bit | 170 | | | | | | |
| | TFS | TF0, bits | 1x170 | | | | | |
| | TTI, ms | 10 | | | | | | |
| | Coding type | CC 1/2 | | | | | | |
| | CRC, bit | 16 | | | | | | |
| | Max number of bits/TTI after channel coding | 388 | | | | | | |
| | Max number of bits/ Radio frame before rate matching | 388 | | | | | | |

6.11.6.4.5.3.2 Physical channel parameters

See clause 6.11.6.4.5.1.2.

6.11.6.4.6 Combinations on DPCH and HS-PDSCH

6.11.6.4.6.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.1.1 Uplink

See clause 6.11.6.4.1.26.1.

6.11.6.4.6.1.2 Downlink

6.11.6.4.6.1.2.1 Transport channel parameters

6.11.6.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| | | |
|--------------|---|---------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | AMD PDU header, bit | 16 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 10 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE: | The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | |

6.11.6.4.6.1.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.1.2.1.2.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

6.11.6.4.6.1.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.1.2.2 Physical channel parameters

6.11.6.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

6.10.3.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Physical parameters common for all UE physical layer categories

| | | |
|----------|----------|------------|
| HS-PDSCH | Midamble | 1024 chips |
|----------|----------|------------|

UE HS-DSCH Physical Layer category 1:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 2 |
| | Max Data Rate | 1.2 Mbps |

UE HS-DSCH Physical Layer category 2:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 1.2 Mbps |

UE HS-DSCH Physical Layer category 3:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 4 |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 4:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 2.4 Mbps |

UE HS-DSCH Physical Layer category 5:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 6 |
| | Max Data Rate | 3.6 Mbps |

UE HS-DSCH Physical Layer category 6:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 3.6 Mbps |

UE HS-DSCH Physical Layer category 7:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 5.3 Mbps |

UE HS-DSCH Physical Layer category 8:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 7.3 Mbps |

UE HS-DSCH Physical Layer category 9:

| | | |
|----------|---|-----------------------------------|
| HS-PDSCH | Number of processes | 3 |
| | Process memory size | Split equally among all processes |
| | Maximum number of HS-DSCH timeslots per TTI | 12 |
| | Max Data Rate | 10.2 Mbps |

6.11.6.4.6.2 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.2.1 Uplink

See clause 6.11.6.4.1.28.1.

6.11.6.4.6.2.2 Downlink

6.11.6.4.6.2.2.1 Transport channel parameters

6.11.6.4.6.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.2.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.2.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.2.2.2 Physical channel parameters

6.11.6.4.6.2.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2..

6.11.6.4.6.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.3 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.3.1 Uplink

See clause 6.11.6.4.1.34.1.

6.11.6.4.6.3.2 Downlink

6.11.6.4.6.3.2.1 Transport channel parameters

6.11.6.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.3.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.3.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.3.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.3.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.3.2.2 Physical channel parameters

6.11.6.4.6.3.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2..

6.11.6.4.6.3.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.4.1 Uplink

6.11.6.4.6.4.1.1 Transport channel parameters

6.11.6.4.6.4.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.6.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.11.6.4.1.34.1.1.1.

6.11.6.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.4.1.1.4 TFCS

| | |
|-----------|--|
| TFCS size | 36 (alt. 54) |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1) (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |

6.11.6.4.6.4.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 3 time slots |
| | Max. Number of data bits/radio frame | 6 480 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

6.11.6.4.6.4.2 Downlink

6.11.6.4.6.4.2.1 Transport channel parameters

6.11.6.4.6.4.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.4.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.4.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.4.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.6.4.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.4.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.6.4.2.2 Physical channel parameters

6.11.6.4.6.4.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.5.1 Uplink

See clause 6.11.6.4.1.40.1.

6.11.6.4.6.5.2 Downlink

6.11.6.4.6.5.2.1 Transport channel parameters

6.11.6.4.6.5.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.5.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.5.2.1.2.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.6.5.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.5.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.6.5.2.2 Physical channel parameters

6.11.6.4.6.5.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.6 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.6.1 Uplink

6.11.6.4.6.6.1.1 Transport channel parameters

6.11.6.4.6.6.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.6.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.11.6.4.1.34.1.1.1.

6.11.6.4.6.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.6.1.1.4 TFCS

| | |
|-----------|---|
| TFCS size | 24 (alt. 36) |
| TFCS | (64 kbps RAB, 384 kbps RAB , DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1)) |

6.11.6.4.6.6.1.2 Physical channel parameters

| | | |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble | 512 chips |
| | Codes and time slots | SF4 x 1 code x 3 time slots |
| | Max. Number of data bits/radio frame | 6 480 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.40 |

6.11.6.4.6.6.1 Downlink

6.11.6.4.6.6.2.1 Transport channel parameters

6.11.6.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.6.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.6.2.1.1 Transport channel parameters for DCH

6.11.6.4.6.6.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.6.2.1.2.3 TFCS

See clause 6.11.6.4.1.13.2.1.3.

6.11.6.4.6.6.2.2 Physical channel parameters

6.11.6.4.6.6.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.7 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.7.1 Uplink

See clause 6.11.6.4.1.57.1.

6.11.6.4.6.7.2 Downlink

6.11.6.4.6.7.2.1 Transport channel parameters

6.11.6.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.7.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.7.2.1.1 Transport channel parameters for DCH

6.11.6.4.6.7.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.6.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.7.2.1.2.3 TFCS

See clause 6.11.6.4.1.13.2.1.3.

6.11.6.4.6.7.2.2 Physical channel parameters

6.11.6.4.6.7.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.8 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.8.1 Uplink

6.11.6.4.6.8.1.1 Transport channel parameters

6.11.6.4.6.8.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB | RAB | RAB |
|--------------|----------------------|------|------|
| RLC | Logical channel type | DTCH | DTCH |
| | RLC mode | AM | AM |
| | Payload sizes, bit | 320 | 320 |

| | | | | |
|----------|---|--------------------------------|---------|--|
| | Max data rate, bps | 384 000 | 384 000 | |
| | AMD PDU header, bit | 16 | 16 | |
| MAC | MAC header, bit | 4 | 4 | |
| | MAC multiplexing | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | DCH | | |
| | TB sizes, bit | 340 | | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x340 | |
| | | TF2, bits | 2x340 | |
| | | TF3, bits | 4x340 | |
| | | TF4, bits | 8x340 | |
| | | TF5, bits | 12x340 | |
| | TTI, ms | 10 | | |
| | Coding type | TC | | |
| CRC, bit | 16 | | | |
| | Max number of bits/TTI after channel coding | 12 828 | | |
| | Uplink: Max number of bits/radio frame before rate matching | 12 828 | | |
| | RM attribute | 110-180 | | |

6.11.6.4.6.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.8.1.1.3 TFCS

| | |
|-----------|---|
| TFCS size | 12 |
| TFCS | (384 kbps RAB + 384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

6.11.6.4.6.8.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 1 codes x 3 time slot |
| | Max. Number of data bits/radio frame | 6480 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

6.11.6.4.6.8.2 Downlink

6.11.6.4.6.8.2.1 Transport channel parameters

6.11.6.4.6.8.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.8.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.8.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.8.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.8.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.8.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.8.2.2 Physical channel parameters

6.11.6.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

6.11.6.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.9 Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.9.1 Uplink

See clause 6.11.6.4.1.57.1.

6.11.6.4.6.9.2 Downlink

6.11.6.4.6.9.2.1 Transport channel parameters

6.11.6.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.9.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.9.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.9.2.2 Physical channel parameters

6.11.6.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

6.11.6.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.10 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.10.1 Uplink

6.11.6.4.6.10.1.1 Transport channel parameters

6.11.6.4.6.10.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB | |
|--------------|---|-----------|-------|
| RLC | Logical channel type | DTCH | |
| | RLC mode | AM | |
| | Payload sizes, bit | 640 | |
| | Max data rate, bps | 128000 | |
| | AM PDU header, bit | 16 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 656 | |
| | TFS | TF0, bits | 0x656 |
| | | TF1, bits | 1x656 |
| | | TF2, bits | 2x656 |
| | | TF3, bits | 4x656 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 8076 | |
| | Uplink: Max number of bits/radio frame before rate matching | 4038 | |
| RM attribute | 125-165 | | |

6.11.6.4.6.10.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

6.11.6.4.6.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.10.1.1.3 TFCS

| | |
|-----------|--|
| TFCS size | 40 |
| TFCS | (128 kbps RAB, 128 kbps RAB, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.11.6.4.6.10.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 4272 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.48 |

- 6.11.6.4.6.10.2 Downlink
- 6.11.6.4.6.10.2.1 Transport channel parameters
- 6.11.6.4.6.10.2.1.1 Transport channel parameters for HS-DSCH
- 6.11.6.4.6.10.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

| Higher Layer | RAB/Signalling RB | RAB |
|---|-------------------------------|---------------------------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 640 |
| | Max data rate, bps | depends on UE category NOTE1 |
| | AMD PDU header, bit | 16 |
| MAC | MAC-d header, bit | 0 |
| | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 656 |
| | MAC-hs header fixed part, bit | 21 |
| Layer 1 | TrCH type | HS-DSCH |
| | TTI | 10 ms |
| | Coding type | TC |
| | CRC, bit | 24 |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). | | |

- 6.11.6.4.6.10.2.1.1.2 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

- 6.11.6.4.6.10.2.1.2 Transport channel parameters for DCH

- 6.11.6.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

- 6.11.6.4.6.10.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

- 6.11.6.4.6.10.2.2 Physical channel parameters

- 6.11.6.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

- 6.11.6.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

- 6.11.6.4.6.11 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.11.6.4.6.11.1 Uplink

- 6.11.6.4.6.11.1.1 Transport channel parameters

- 6.11.6.4.6.11.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.6.11.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.11.6.4.6.10.1.1.1.

6.11.6.4.6.11.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

6.11.6.4.6.11.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.11.1.1.5 TFCS

| | |
|-----------|---|
| TFCS size | 120 |
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0), (TF2,TF1,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0), (TF2,TF1,TF1,TF2,TF0,TF0), (TF0,TF0,TF0,TF3,TF0,TF0), (TF1,TF0,TF0,TF3,TF0,TF0), (TF2,TF1,TF1,TF3,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0), (TF2,TF1,TF1,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0), (TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0), (TF0,TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF0,TF2,TF0), (TF0,TF0,TF0,TF1,TF2,TF0), (TF1,TF0,TF0,TF1,TF2,TF0), (TF2,TF1,TF1,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0), (TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0), (TF0,TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF0,TF3,TF0), (TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0), (TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0), (TF0,TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF0,TF4,TF0), (TF0,TF0,TF0,TF1,TF4,TF0), (TF1,TF0,TF0,TF1,TF4,TF0), (TF2,TF1,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0), (TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0), (TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1), (TF2,TF1,TF1,TF1,TF0,TF1), (TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1), (TF2,TF1,TF1,TF2,TF0,TF1), (TF0,TF0,TF0,TF3,TF0,TF1), (TF1,TF0,TF0,TF3,TF0,TF1), (TF2,TF1,TF1,TF3,TF0,TF1), (TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1), (TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1), (TF0,TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF0,TF2,TF1), (TF0,TF0,TF0,TF1,TF2,TF1), (TF1,TF0,TF0,TF1,TF2,TF1), (TF2,TF1,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1), (TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1), (TF0,TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF0,TF3,TF1), (TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1), (TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1), (TF0,TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF0,TF4,TF1), (TF0,TF0,TF0,TF1,TF4,TF1), (TF1,TF0,TF0,TF1,TF4,TF1), (TF2,TF1,TF1,TF1,TF4,TF1), (TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1), (TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

6.11.6.4.6.11.1.2 Physical channel parameters

| | | |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble | 1024 chips |
| | Codes and time slots | SF4 x 2 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 4272 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0.44 |

6.11.6.4.6.11.2 Downlink

6.11.6.4.6.11.2.1 Transport channel parameters

6.11.6.4.6.11.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.11.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

See clause 6.11.6.4.6.10.2.1.1.1.

6.11.6.4.6.11.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.11.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.11.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.6.11.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.11.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.6.11.2.2 Physical channel parameters

6.11.6.4.6.11.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.11.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.7 Combinations on HS-PDSCH and E-PUCH

6.11.6.4.7.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.6.4.7.1.1 Uplink

6.11.6.4.7.1.1.1 Transport channel parameters

6.11.6.4.7.1.1.1.1 Transport channel parameters for E-DCH

6.11.6.4.7.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

| | | |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB | RAB |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | Depends on UE category and TTI |
| | AMD PDU header, bit | 16 |
| MAC | MAC multiplexing | N/A |
| | MAC-d PDU size, bit | 336 |
| | MAC-e/es header fixed part, bit | 18 |
| Layer 1 | TrCH type | E-DCH |
| | TTI | 10ms |
| | Coding type | TC |
| | CRC, bit | 24 |

6.11.6.4.7.1.1.1.2 Transport channel parameters for DCH

6.11.6.4.7.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.7.1.1.2 Physical channel parameters

6.11.6.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DCH Physical Layer category 1:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 1.7360Mbps |

UE E-DCH Physical Layer category 2:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 3.4752Mbps |

UE E-DCH Physical Layer category 3:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 5.2416Mbps |

UE E-DCH Physical Layer category 4:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 6.9536Mbps |

UE E-DCH Physical Layer category 5:

| | | |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 8.7200Mbps |

UE E-DCH Physical Layer category 6:

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 13.9104Mbps |

UE E-DCH Physical Layer category 7:

| | | |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4 |
| | Max Data Rate | 20.9760Mbps |

6.11.6.4.7.1.1.2.2 Physical channel parameters for DPCH

See clause 6.11.6.4.1.2.1.2

6.11.6.4.7.1.2 Downlink

See clause 6.11.6.4.6.1.2.

6.11.6.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.6.4.7.3.1 Uplink

See clause 6.11.6.4.7.1.1.

6.11.6.4.7.3.1.2 Physical channel parameters

6.11.6.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.6.4.7.1.1.2.1.

6.11.6.4.7.3.2 Downlink

6.11.6.4.7.3.2.1 Transport channel parameters

6.11.6.4.7.3.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.7.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.7.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/Signalling RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|---|-------------------------------|--------------------------------|-------|-------|-------|
| RLC | Logical channel type | DCCH | DCCH | DCCH | DCCH |
| | RLC mode | UM | AM | AM | AM |
| | Payload sizes, bit | 136 | 128 | 128 | 128 |
| | Max data rate, bps | Depends on UE category (NOTE) | | | |
| | AMD PDU header, bit | 8 | 16 | 16 | 16 |
| MAC | MAC-d header, bit | 4 | 4 | 4 | 4 |
| | MAC multiplexing | 4 logical channel multiplexing | | | |
| | MAC-d PDU size, bit | 148 | | | |
| | MAC-hs header fixed part, bit | 21 | | | |
| Layer 1 | TrCH type | HS-DSCH | | | |
| | TTI | 10 ms | | | |
| | Coding type | TC | | | |
| | CRC, bit | 24 | | | |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). | | | | | |

6.11.6.4.7.3.2.2 Physical channel parameters

6.11.6.4.7.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.6.4.6.1.2.2.2.

- 6.11.6.4.7.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.7.4.1 Uplink
- 6.11.6.4.7.4.1.1 Transport channel parameters
- 6.11.6.4.7.4.1.1.1 Transport channel parameters for E-DCH
- 6.11.6.4.7.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB
- See clause 6.11.6.4.1.4.1.1.1.
- 6.11.6.4.7.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH
- See clause 6.11.6.4.1.2.1.1.1.
- 6.11.6.4.7.4.1.1.4 TFCS
- See clause 6.11.6.4.1.4.1.1.3.
- 6.11.6.4.7.4.1.2 Physical channel parameters
- 6.11.6.4.7.4.1.2.1 Physical channel parameters on E-PUCH
- See clause 6.11.6.4.7.1.1.2.1.
- 6.11.6.4.7.4.1.2.2 Physical channel parameters on DCH
- See clause 6.11.6.4.1.4.1.2.
- 6.11.6.4.7.4.2 Downlink
- See clause 6.11.6.4.6.3.2.
- 6.11.6.4.7.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 6.11.6.4.7.5.1 Uplink
- 6.11.6.4.7.5.1.1 Transport channel parameters
- 6.11.6.4.7.5.1.1.1 Transport channel parameters for E-DCH
- MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.
- 6.11.6.4.7.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.6.4.7.2.1.1.1.2.

6.11.6.4.7.5.1.2 Physical channel parameters

6.11.6.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.6.4.7.1.1.2.1.

6.11.6.4.7.5.2 Downlink

See clause 6.11.6.4.6.3.2.

6.11.7 Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB

6.11.7.1 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

Combinations on SCCPCH

- 1) 7.6 kbps signalling RB for MBSFN MCCH with 40ms TTI

Combinations on SCCPCH Type 2

- 1) 124.4kbps RB for MBSFN MTCH with 80 ms TTI
- 2) 320.4kbps RB for MBSFN MTCH with 80 ms TTI
- 3) 497.6kbps RB for MBSFN MTCH with 80 ms TTI

6.11.7.2 Typical radio parameter sets

6.11.7.2.1 Combination on SCCPCH

6.11.7.2.1.1 7.6 kbps signalling RB for MBSFN MCCH with 40ms TTI

6.11.7.2.1.1.1 Transport channel parameters

6.11.7.2.1.1.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | SRB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MCCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bps | | 7600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | - |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 80 |
| | TFS | TF0, bits | 0x160 |
| | | TF1, bits | 1x160 |
| | | TF2, bits | 2x160 |
| | TTI, ms | | 40 |
| | Coding type | | CC 1/3 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 1080 |
| | Max number of bits/radio frame before rate matching | | 270 |
| RM attribute | | 128 | |

6.11.7.2.1.1.1.2 TFCS

| | |
|-----------|-------------------------|
| TFCS size | 3 |
| TFCS | MBMS SRB =TF0, TF1, TF2 |

6.11.7.2.1.1.2 Physical channel parameters

| | | |
|---------|---------------------------|----------|
| S-CCPCH | DTX position | Flexible |
| | Spreading factor | 256 |
| | Number of codes | 1 |
| | Number of data bits/slot | 16 |
| | Number of data bits/frame | 240 |
| | Modulation | QPSK |
| | Slot Format # | Format 1 |

6.11.7.2.2 Combinations on SCCPCH Type 2

6.11.7.2.2.1 124.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.7.2.2.1.1 Transport channel parameters

6.11.7.2.2.1.1.1 Transport channel parameters for 124.4 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | RAB | |
| | User of Radio Bearer | MBMS | |
| RLC | Logical channel type | MTCH | |
| | RLC mode | UM | |
| | Payload sizes, bit | 4976 | |
| | Max data rate, bps | 124400 | |
| | UMD PDU header, bit | 8 | |
| MAC | MAC header, bit | 8 | |
| | MAC multiplexing | N/A | |
| Layer 1 | TrCH type | FACH | |
| | TB sizes, bit | 4992 | |
| | TFS | TF0, bits | 0x4992 |
| | | TF1, bits | 1x4992 |
| | | TF2, bits | 2x4992 |
| | TTI, ms | 80 | |
| | Coding type | TC | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 30072 | |
| | Max number of bits/radio frame before rate matching | 3759 | |
| RM attribute | 128 | | |

6.11.7.2.2.1.1.2 TFCS

| | |
|-----------|-----------------------------|
| TFCS size | 3 |
| TFCS | 124 kbps RAB =TF0, TF1, TF2 |

6.11.7.2.2.1.2 Physical channel parameters

| | | |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position | Flexible |
| | Spreading factor | 16 |
| | Number of codes | 4 |
| | Number of data bits/slot | 1136 |
| | Number of data bits/frame | 3408 |
| | Modulation | QPSK |
| | Slot Format # | Format 2 and 3 |

6.11.7.2.2.2 320.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.7.2.2.2.1 Transport channel parameters

6.11.7.2.2.2.1.1 Transport channel parameters for 320.4 kbps PS RAB

| | | | |
|--------------|---|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4272 |
| | Max data rate, bps | | 320400 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4288 |
| | TFS | TF0, bits | 0x4288 |
| | | TF1, bits | 1x4288 |
| | | TF2, bits | 2x4288 |
| | | TF3, bits | 3x4288 |
| | | TF4, bits | 4x4288 |
| | | TF5, bits | 5x4288 |
| | | TF6, bits | 6x4288 |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 77544 |
| | Max number of bits/radio frame before rate matching | | 9693 |
| RM attribute | | 128 | |

6.11.7.2.2.2.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 7 |
| TFCS | 320 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6 |

6.11.7.2.2.2.2 Physical channel parameters

| | | |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position | Flexible |
| | Spreading factor | 16 |
| | Number of codes | 4 |
| | Number of data bits/slot | 2288 |
| | Number of data bits/frame | 6864 |
| | Modulation | 16QAM |
| | Slot Format # | Format 4 and 5 |

6.11.7.2.2.3 497.6kbps RB for MBSFN MTCH with 80 ms TTI

6.11.7.2.2.3.1 Transport channel parameters

6.11.7.2.2.3.1.1 Transport channel parameters for 497.6 kbps PS RAB

| | | | |
|---|----------------------|-----------|--------|
| Higher layer | RAB/signalling RB | | RAB |
| | User of Radio Bearer | | MBMS |
| RLC | Logical channel type | | MTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 4976 |
| | Max data rate, bps | | 497600 |
| | UMD PDU header, bit | | 8 |
| MAC | MAC header, bit | | 8 |
| | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 4992 |
| | TFS | TF0, bits | 0x4992 |
| | | TF1, bits | 1x4992 |
| | | TF2, bits | 2x4992 |
| | | TF3, bits | 3x4992 |
| | | TF4, bits | 4x4992 |
| | | TF5, bits | 5x4992 |
| | | TF6, bits | 6x4992 |
| | | TF7, bits | 7x4992 |
| | TF8, bits | 8x4992 | |
| | TTI, ms | | 80 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| Max number of bits/TTI after channel coding | | 120288 | |
| Max number of bits/radio frame before rate matching | | 15036 | |
| RM attribute | | 128 | |

6.11.7.2.2.3.1.2 TFCS

| | |
|-----------|---|
| TFCS size | 9 |
| TFCS | 496 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.11.7.2.2.3.2 Physical channel parameters

| | | |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position | Flexible |
| | Spreading factor | 16 |
| | Number of codes | 5 |
| | Number of data bits/slot | 2864 |
| | Number of data bits/frame | 8592 |
| | Modulation | 16QAM |
| | Slot Format # | Format 4 and 5 |

7 Generic setup procedures

7.1 Basic Generic Procedures

7.1.1 UE Test States for Basic Generic Procedures

This clause describes a set of procedures for use by test cases in 3GPP TS 34.123-1 [1]. Describing these procedures in a generic manner allows their use in many test cases. By using these procedures, test case descriptions need not detail signalling that is not relevant to its purpose or understanding.

The procedures are based upon default values that are adapted to the most common usage. Test cases that require values different from the default will, when specifying the Basic Generic Procedure, also specify those parameters that are modified.

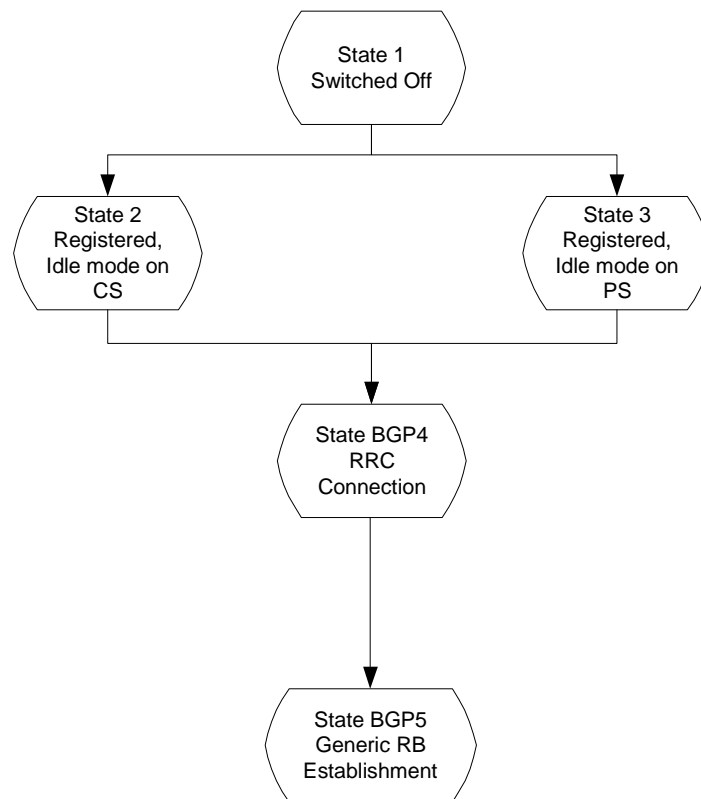


Figure 7.1.1: UE Test States for Basic Generic Procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.1.1.

Table 7.1.1: The UE states

| | | RRC | CC | MM | SM | GMM |
|------------|--------------------------|------------|-----------|-------------|--------------|------------------|
| State 1 | Power OFF | ----- | null | null | pdp-inactive | GMM-null |
| State 2 | CS Registered Idle Mode | idle | null | idle | pdp-inactive | GMM-deregistered |
| State 3 | PS Registered Idle Mode | idle | null | null | pdp-inactive | GMM-registered |
| State BGP4 | RRC Connection | connected | null | as previous | pdp-inactive | as previous |
| State BGP5 | Generic RB Establishment | connected | null | as previous | pdp-inactive | as previous |

7.1.2 Mobile terminated establishment of Radio Resource Connection

7.1.2.1 Initial conditions

System Simulator:

The system simulator will start from the default idle state. Parameters will be the default parameters for a single cell, unless otherwise specified in the test case.

User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.
- The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

7.1.2.2 Definition of system information messages

The default system information messages are used.

7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION SETUP COMPLETE message from the UE.
- On receipt of an RRC CONNECTION SETUP COMPLETE message, the procedure is complete.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|---------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Default SI messages |
| 2 | ← | | PAGING TYPE 1 (PCCH) | Sent on appropriate cycle |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |

7.1.2.4 Specific message contents

7.1.2.4.1 PAGING TYPE 1

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel.

| Information Element | | | | Value/Remark |
|--|---------------|---------------|--------------------|---|
| Message Type | | | | PAGING TYPE 1 |
| UE Information elements | | | | |
| Paging record list | Paging record | CN originator | Paging cause | Terminating Speech Call (note) |
| | | | CN domain identity | CS domain (note) |
| | | | UE Identity | TMSI (GSM-MAP) As specified during Registration procedure |
| Other information elements | | | | |
| BCCH modification info | | | | omit |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause, CN domain identity and UE Identity are selected in accordance with the requirements of the following procedure. | | | | |

7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

| Information Element | | | Value/Remark |
|--|-------------------------------|----------------|--|
| Message Type | | | RRC CONNECTION REQUEST |
| UE information elements | | | |
| Initial UE identity | TMSI and LAI | TMSI (GSM-MAP) | As specified during Registration procedure |
| | | LAI (GSM-MAP) | As specified by default 1 cell environment |
| Initial UE capability | Maximum number of AM entities | | As declared in UE ICS |
| Establishment cause | | | As appropriate |
| Protocol error indicator | | | FALSE |
| >UE Specific Behaviour Information 1 idle | | | This IE will not be checked by default behaviour, but in specific test case. |
| Measurement information elements | | | |
| Measured results on RACH | | | Not checked |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure. | | | |

7.1.2.4.3 RRC CONNECTION SETUP

This message is sent from the SS to the UE using the UM-RLC SAP. The message is sent on the CCCH Logical channel.

The default RRC CONNECTION SETUP message for the transition to connected mode CELL_DCH is used except for the IE fields specified below.

| Information Element | | | Value/Remark |
|--|--------------|----------------|--|
| Message Type | | | RRC CONNECTION SETUP |
| UE Information Elements | | | |
| Initial UE identity | TMSI and LAI | TMSI (GSM-MAP) | As specified during Registration procedure |
| | | LAI (GSM-MAP) | As specified by default 1 cell environment |
| RB Information Elements | | | |
| Use default | | | |
| TrCH Information Elements | | | |
| Use default | | | |
| PhyCH Information Elements | | | |
| Frequency info | | | As specified by default 1 cell environment |
| Uplink radio resources | | | |
| Use default | | | |
| Downlink radio resources | | | |
| Use default | | | |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure. | | | |

7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

| Information Element | | | Value/Remark |
|--------------------------------|-----------------------------|--------------------------------------|-------------------------------|
| Message Type | | | RRC CONNECTION SETUP COMPLETE |
| UE Information Elements | | | |
| Hyper frame number | | | Not checked |
| UE radio access capability | Conformance test compliance | | R99 |
| | PDCP capability | Support for lossless SRNS relocation | Not checked |

| Information Element | | Value/Remark | |
|---------------------|------------------------------------|--|---|
| | | Supported algorithm types | Not checked |
| | RLC capability | Total RLC AM buffer size | Not checked |
| | | Maximum number of AM entities | Not checked |
| | Transport channel capability | Downlink | |
| | | Max no of bits received | Not checked |
| | | Max convolutionally coded bits received | Not checked |
| | | Max turbo coded bits received | Not checked |
| | | Maximum number of simultaneous transport channels | Not checked |
| | | Max no of received transport blocks | Not checked |
| | | Maximum number of TFC in the TFCS | Not checked |
| | | Maximum number of TF | Not checked |
| | | Support for turbo decoding | Not checked |
| | | Uplink | |
| | | Max no of bits transmitted | Not checked |
| | | Max convolutionally coded bits received | Not checked |
| | | Max turbo coded bits received | Not checked |
| | | Maximum number of simultaneous transport channels | Not checked |
| | | Max no of transmitted transport blocks | Not checked |
| | | Maximum number of TFC in the TFCS | Not checked |
| | | Maximum number of TF | Not checked |
| | | Support for turbo encoding | Not checked |
| | RF capability | UE power class | As declared for UE |
| | | Tx/Rx frequency separation | Not checked |
| | Physical channel capability | Downlink | |
| | | Maximum number of simultaneous CCTrCH | Not checked |
| | | Max no DPCH/PDSCH codes | Not checked (PDSCH: R99 and Rel-4 only) |
| | | Max no physical channel bits received | Not checked |
| | | Support for SF 512 | Not checked |
| | | Support of PDSCH | Not checked (R99 and Rel-4 only) |
| | | Simultaneous reception of SCCPCH and DPCH | Not checked |
| | | Max no of S-CCPCH RL | Not checked |
| | | Uplink | |
| | | Maximum number of DPDCH bits transmitted per 10 ms | Not checked |
| | | Support of PCPCH (R99 and Rel-4 only) | Not checked |
| | UE multi-mode/multi-RAT capability | Multi-RAT capability | |
| | | Multi-mode capability | FDD or FDD/TDD |
| | Security capability | Ciphering algorithm capability | Not checked |
| | | Integrity protection algorithm capability | Not checked |
| | LCS capability | Standalone location method(s) supported | Not checked |

| Information Element | | Value/Remark |
|-------------------------------|-----------------------------------|--------------|
| | UE based OTDOA supported | Not checked |
| | Network Assisted GPS support | Not checked |
| | GPS reference time capable | Not checked |
| | Support for IPDL | Not checked |
| Measurement capability | Need for downlink compressed mode | Not checked |
| | FDD measurements DL | Not checked |
| | TDD measurements DL | Not checked |
| | GSM 900 DL | Not checked |
| | DCS 1800 DL | Not checked |
| | GSM 1900 DL | Not checked |
| | Multi-carrier measurement DL | Not checked |
| | Need for uplink compressed mode | Not checked |
| | FDD measurements UL | Not checked |
| | TDD measurements UL | Not checked |
| | GSM 900 UL | Not checked |
| | DCS 1800 UL | Not checked |
| | GSM 1900 UL | Not checked |
| | Multi-carrier measurement UL | Not checked |
| UE system specific capability | | Not checked |

7.1.3 Radio Bearer Setup Procedure

7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

7.1.3.2 Definition of system information messages

The default system information messages are used.

7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On reception of the RADIO BEARER SETUP COMPLETE the procedure is complete.

| Step | Direction | | Message | Comments |
|------|-----------|----|------------------------------------|----------|
| | UE | SS | | |
| 1 | ← | | RADIO BEARER SETUP (DCCH) | RRC |
| 2 | | → | RADIO BEARER SETUP COMPLETE (DCCH) | RRC |

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

| Information Element | Value/Remark |
|--------------------------------|---|
| Message Type | RADIO BEARER SETUP |
| UE Information Elements | |
| CN Information Elements | |
| RB Information Elements | |
| RAB information for setup | Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD |

7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used.

| Information Element | Value/Remark |
|---------------------|-----------------------------|
| Message Type | RADIO BEARER SETUP COMPLETE |
| Use default | |

7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

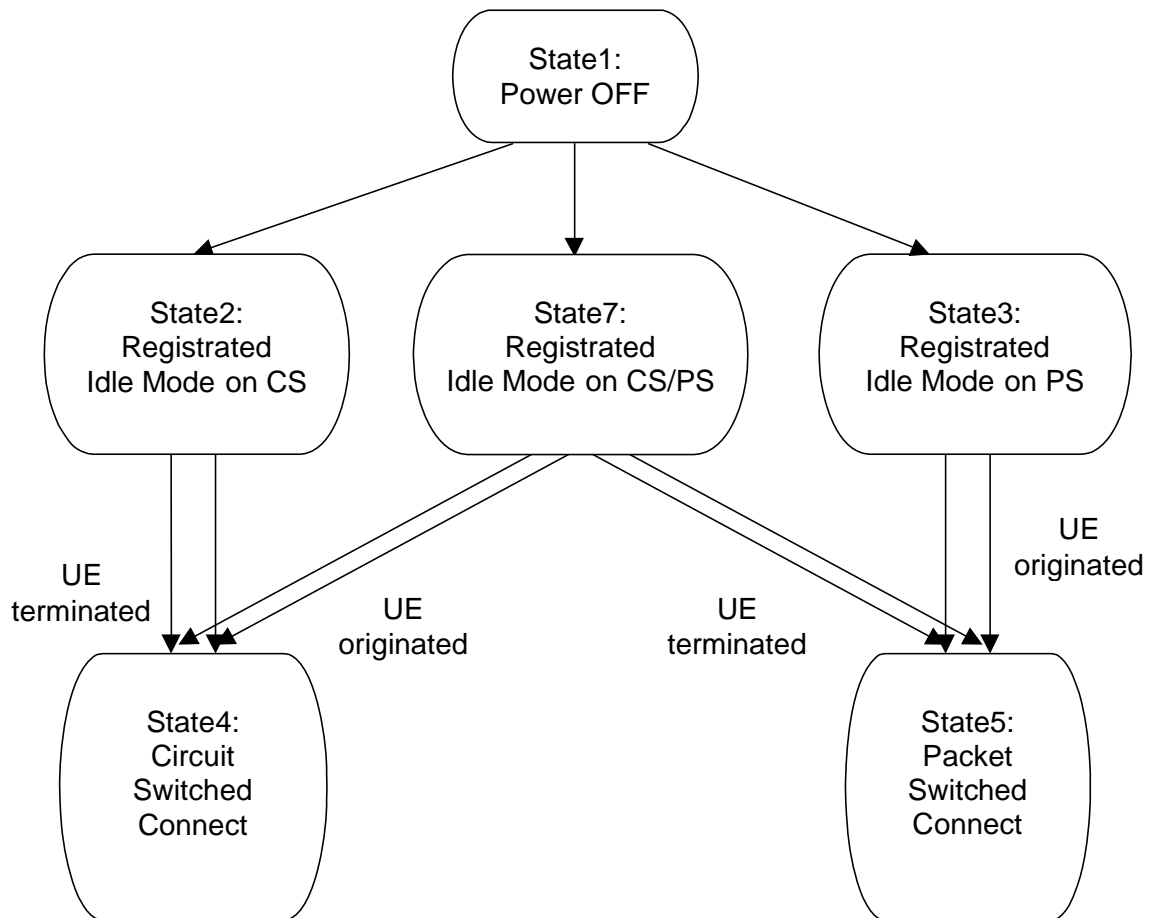


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

Table 7.2.1.1: The UE states

| | | RRC | CC | MM | SM | GMM |
|--------|-------------------------------|------------|-----------|------------------------|--------------|------------------------|
| State1 | Power OFF | ----- | null | null | pdp-inactive | GMM-null |
| State2 | Registered Idle Mode on CS | idle | null | MM idle | pdp-inactive | GMM-deregistered |
| State3 | Registered Idle Mode on PS | idle | null | null | pdp-inactive | GMM-registered |
| State4 | Circuit Switched Connect | connected | active | MM connection active | pdp-inactive | same as previous state |
| State5 | Packet Switched Connect | connected | null | same as previous state | pdp-active | GMM-registered |
| State7 | Registered Idle Mode on CS/PS | idle | null | MM idle | pdp-inactive | GMM-registered |

7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following clauses.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in 3GPP TS 24.008 [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

| Network Mode | | NMO I | NMO II |
|---------------------|--------------|--------------|---------------|
| UE Mode | PS/CS | 7.2.2.3 | 7.2.2.4 |
| | PS | 7.2.2.2 | 7.2.2.2 |

7.2.2.1 Registration on CS

7.2.2.1.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.1.2 Definition of system information messages

The default system information messages are used.

7.2.2.1.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|--------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | NW Broadcast |
| 2 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | | → | LOCATION UPDATING REQUEST | MM |
| 6 | | ← | AUTHENTICATION REQUEST | MM |
| 7 | | → | AUTHENTICATION RESPONSE | MM |
| 8 | | ← | SECURITY MODE COMMAND | RRC |
| 9 | | → | SECURITY MODE COMPLETE | RRC |
| 10 | | ← | LOCATION UPDATING ACCEPT | MM |
| 11 | | → | TMSI REALLOCATION COMPLETE | MM |
| 12 | | ← | RRC CONNECTION RELEASE | RRC |
| 13 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.2.2.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.2.2 Registration on PS

7.2.2.2.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

-If RAN Assisted WLAN interworking test cases are being performed for ANDSF rules using RAN provided thresholds, ANDSF rules to match the RAN rules defined in TS 25.304 are available in the UE.

7.2.2.2.2 Definition of system information messages

The default system information messages are used.

7.2.2.2.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | NW Broadcast |
| 2 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | | → | ATTACH REQUEST | GMM |
| 6 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | | ← | SECURITY MODE COMMAND | RRC |
| 9 | | → | SECURITY MODE COMPLETE | RRC |
| 10 | | ← | ATTACH ACCEPT | GMM |
| 11 | | → | ATTACH COMPLETE | GMM |
| 12 | | ← | RRC CONNECTION RELEASE | RRC |
| 13 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.2.2.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.2.3 Registration on CS / PS combined environment

7.2.2.3.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode I, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.
- If RAN Assisted WLAN interworking test cases are being performed for ANDSF rules using RAN provided thresholds, ANDSF rules to match the RAN rules defined in TS 25.304 are available in the UE.

7.2.2.3.2 Definition of system information messages

The default system information messages are used.

7.2.2.3.3 Procedure UE establish PS registration immediately after the UE has been switched on

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | NW Broadcast |
| 2 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | | → | ATTACH REQUEST | GMM |
| 6 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | | ← | SECURITY MODE COMMAND | RRC |
| 9 | | → | SECURITY MODE COMPLETE | RRC |
| 10 | | ← | ATTACH ACCEPT | GMM |
| 11 | | → | ATTACH COMPLETE | GMM |
| 12 | | ← | RRC CONNECTION RELEASE | RRC |
| 13 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.2.2.3.3a Procedure UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, see clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | NW Broadcast |
| 1a | | | | The UE initiates an attach by MMI or by AT command. |
| 2 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | | → | ATTACH REQUEST | GMM |
| 6 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | | ← | SECURITY MODE COMMAND | RRC |
| 9 | | → | SECURITY MODE COMPLETE | RRC |
| 10 | | ← | ATTACH ACCEPT | GMM |
| 11 | | → | ATTACH COMPLETE | GMM |
| 12 | | ← | RRC CONNECTION RELEASE | RRC |

| | | | |
|----|---|---------------------------------|-----|
| 13 | → | RRC CONNECTION RELEASE COMPLETE | RRC |
|----|---|---------------------------------|-----|

7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.2.4 Registration on CS / PS non-combined environment

7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A
- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.4.2 Definition of system information messages

The default system information messages are used.

7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

Registrations in the CS domain and in the PS domain shall execute independently. The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially PS domain registration can be started immediately after power on or the UE can initiate PS registration by MMI or by AT command. If MMI or AT commands are used, registrations are done with two separate RRC connections. The procedures for CS and PS registration shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3 Call setup

7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.1.2 Definition of system information messages

The default system information messages are used.

7.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------|----------|
| | UE | SS | | |

| Step | Direction | | Message | Comments |
|--|-----------|----|--------------------------------------|-------------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING (PCCH) | Paging |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | SET UP | CC (see note) |
| 12 | → | | CALL CONFIRMED | CC |
| 13 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 14 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | → | | ALERTING | CC (this message is optional) |
| 16 | → | | CONNECT | CC |
| 17 | ← | | CONNECT ACKNOWLEDGE | CC |
| NOTE: The "Signal" information element is not included in the SETUP message. | | | | |

7.2.3.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.2 Generic call set-up procedure for mobile originating circuit switched calls

7.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.2.2 Definition of system information messages

The default system information messages are used.

7.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|---------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | → | | CM SERVICE REQUEST | MM |
| 6 | ← | | AUTHENTICATION REQUEST | MM |
| 7 | → | | AUTHENTICATION RESPONSE | MM |
| 8 | ← | | SECURITY MODE COMMAND | RRC |
| 9 | → | | SECURITY MODE COMPLETE | RRC |
| 10 | → | | SET UP | CC |
| 11 | ← | | CALL PROCEEDING | CC |
| 12 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 13 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 14 | ← | | ALERTING | CC |
| 15 | ← | | CONNECT | CC |

| | | | |
|----|---|---------------------|----|
| 16 | → | CONNECT ACKNOWLEDGE | CC |
|----|---|---------------------|----|

7.2.3.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3 Supplementary service procedures

7.2.3.3.1 Generic procedures for Multiparty call set up

7.2.3.3.1.1 General on generic procedures for Multiparty call set up

In the generic procedures for Multiparty call set up the following conventions shall apply. Subscriber A is the UE under test, and subscribers B, C, D and E are distant parties to the calls are made. The calls between the UE under test and subscriber B, C, D and E are referenced by Call A-B, Call A-C, Call A-D and Call A-E. The value of the transaction identifier for each call is arbitrary, except that each value must be different from the other ones.

7.2.3.3.1.2 Call A-B in state U10 "Active" with auxiliary state "Call held"

7.2.3.3.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.2.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.2.3 Procedure

The procedure shall be performed under ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|---|
| | UE | SS | | |
| 1 | | | The UE is made to have Call A-B in state U10 "Active". | This state is achieved by the procedure given in section 7.2.3.2. |
| 2 | | | Make the UE to put Call A-B on hold | |
| 3 | → | | HOLD | CC |
| 4 | | ← | HOLD ACKNOWLEDGE | CC |

7.2.3.3.1.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

HOLD (Step 3)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B |
| Message type | xx01 1000 B, bits 7 and 8 are not checked |

HOLD ACKNOWLEDGE (Step 4)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B |

| Information Element | Value/remark |
|---------------------|--------------|
| Message type | 0001 1001 B |

7.2.3.3.1.3 Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U4 "Call Delivered"

7.2.3.3.1.3.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.3.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.3.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|---|
| | UE | SS | | |
| 1 | | | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held". | This state is achieved by the procedure given in section 7.2.3.3.1.2. |
| 2 | | | Make the UE attempt a call to subscriber C | |
| 3 | → | | CM SERVICE REQUEST | MM |
| 4 | ← | | CM SERVICE ACCEPT | MM |
| 5 | → | | SET UP | CC |
| 6 | ← | | CALL PROCEEDING | CC |
| 7 | ← | | ALERTING | CC |

7.2.3.3.1.3.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3.1.4 Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U10 "Active"

7.2.3.3.1.4.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.4.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.4.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | Message | Comments |
|------|-----------|---------|----------|
|------|-----------|---------|----------|

| | UE | SS | | |
|---|----|----|---|---|
| 1 | | | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U4 "Call Delivered" with no auxiliary state. | This state is achieved by the procedure given in section 7.2.3.3.1.3. |
| 2 | ← | | CONNECT | CC |
| 3 | → | | CONNECT ACKNOWLEDGE | CC |

7.2.3.3.1.4.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3.1.5 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY"

7.2.3.3.1.5.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.5.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.5.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|---|
| | UE | SS | | |
| 1 | | | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U10 "Active" with no auxiliary state. | This state is achieved by the procedure given in section 7.2.3.3.1.4. |
| 2 | | | Make the UE to join Call A-B and Call A-C | |
| 3 | → | | FACILITY | CC |
| 4 | ← | | FACILITY | CC |

7.2.3.3.1.5.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

FACILITY with Invoke component (Step 3)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B or Call A-C |
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1100 B (BuildMPTY) |
| - Parameters | not present |

FACILITY with Return Result component (Step 4)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 3 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 3 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

7.2.3.3.1.6 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY, call held"

7.2.3.3.1.6.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.6.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.6.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|---|
| | UE | SS | | |
| 1 | | | The UE is made to have a MultiParty call to two destinations (Call A-B and Call A-C) active. Both call states shall be U10 "Active" with auxiliary state "Call in MPTY". | This state is achieved by the procedure given in section 7.2.3.3.1.5. |
| 2 | | | Make the UE to put the MultiParty call on hold | |
| 3 | → | | FACILITY | CC |
| 4 | | ← | FACILITY | CC |

7.2.3.3.1.6.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

FACILITY with Invoke component (Step 3)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B or Call A-C |
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |

| Information Element | Value/remark |
|-------------------------|--------------------------|
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1011 B (HoldMPTY) |
| - Parameters | not present |

FACILITY with Return Result component (Step 4)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 3 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 3 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

7.2.3.3.1.7 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY, call held" and Call A-D in state U10 "Active"

7.2.3.3.1.7.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.7.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.7.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|---|
| | UE | SS | | |
| 1 | | | The UE is made to have a held MultiParty call to two destinations (Call A-B and Call A-C). Both call states shall be U10 "Active" with auxiliary state "Call in MPTY, call held". | This state is achieved by the procedure given in section 7.2.3.3.1.6. |
| 2 | | | Make the UE attempt a call to subscriber D | |
| 3 | → | | CM SERVICE REQUEST | MM |
| 4 | ← | | CM SERVICE ACCEPT | MM |
| 5 | → | | SET UP | CC |
| 6 | ← | | CALL PROCEEDING | CC |
| 7 | ← | | ALERTING | CC |
| 8 | ← | | CONNECT | CC |
| 9 | → | | CONNECT ACKNOWLEDGE | CC |

7.2.3.3.1.7.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3.1.8 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-D in state U10 "Active" with Auxiliary state "Call held"

7.2.3.3.1.8.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.8.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.8.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|---|
| | UE | SS | | |
| 1 | | | The UE is made to have a MultiParty call to two destinations (A-B and A-C) both in state U10 "Active" with auxiliary state "Call in MPTY, call held" and in addition a single call (A-D) in state U10 "Active" with no auxiliary state. | This state is achieved by the procedure given in section 7.2.3.3.1.7. |
| 2 | | | Make the UE to alternate between the active and held calls | |
| 3 | → | | HOLD | CC |
| 4 | → | | FACILITY | CC |
| 5 | ← | | HOLD ACKNOWLEDGE | CC |
| 6 | ← | | FACILITY | CC |

7.2.3.3.1.8.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

HOLD (Step 3)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-D |
| Message type | xx01 1000 B, bits 7 and 8 are not checked |

FACILITY with Invoke component (Step 4)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B or Call A-C |
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |

| Information Element | Value/remark |
|-------------------------|----------------------------|
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1010 B (RetrieveMPTY) |
| - Parameters | not present |

HOLD ACKNOWLEDGE (Step 5)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-D |
| Message type | 0001 1001 B |

FACILITY with Return Result component (Step 6)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 4 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 4 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

7.2.3.3.1.9 Call A-B, Call A-C and Call A-D in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-E in state U10 "Active" with Auxiliary state "Call held"

7.2.3.3.1.9.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.9.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.9.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|---|
| | UE | SS | | |
| 1 | | | The UE is made to have a MultiParty call to two destinations (A-B and A-C) both in state U10 "Active" with auxiliary state "Call in MPTY" and in addition a single call (A-D) in state U10 "Active" with auxiliary state "Call held". | This state is achieved by the procedure given in section 7.2.3.3.1.8. |
| 2 | | | Make the UE to join the MultiParty call and Call A-D | |
| 3 | → | | FACILITY | |
| 4 | ← | | FACILITY | |
| 5 | | | Make the UE to put the MultiParty call on hold | |

| | | | |
|----|---|--|----|
| 6 | → | FACILITY | CC |
| 7 | ← | FACILITY | CC |
| 8 | | Make the UE attempt a call to subscriber E | |
| 9 | → | CM SERVICE REQUEST | MM |
| 10 | ← | CM SERVICE ACCEPT | MM |
| 11 | → | SET UP | CC |
| 12 | ← | CALL PROCEEDING | CC |
| 13 | ← | ALERTING | CC |
| 14 | ← | CONNECT | CC |
| 15 | → | CONNECT ACKNOWLEDGE | CC |
| 16 | | Make the UE to alternate between the active and held calls | |
| 17 | → | HOLD | CC |
| 18 | → | FACILITY | CC |
| 19 | ← | HOLD ACKNOWLEDGE | CC |
| 20 | ← | FACILITY | CC |

7.2.3.3.1.9.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

FACILITY with Invoke component (Step 3)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B, Call A-C or Call A-D |
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1100 B (BuildMPTY) |
| - Parameters | not present |

FACILITY with Return Result component (Step 4)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 3 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 3 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

FACILITY with Invoke component (Step 6)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B, Call A-C or Call A-D |

| Information Element | Value/remark |
|----------------------------------|---|
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1011 B (HoldMPTY) |
| - Parameters | not present |

FACILITY with Return Result component (Step 7)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 6 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 6 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

HOLD (Step 17)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-E |
| Message type | xx01 1000 B, bits 7 and 8 are not checked |

FACILITY with Invoke component (Step 18)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B, Call A-C or Call A-D |
| Message type | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE | |
| - Length of Facility IE contents | 8 |
| - Component type tag | 1010 0001 B (invoke) |
| - Component length | 6 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | arbitrary integer value. |
| - Operation Code tag | 0000 0010 B |
| - Operation Code length | 1 |
| - Operation Code | 0111 1010 B (RetrieveMPTY) |
| - Parameters | not present |

HOLD ACKNOWLEDGE (Step 19)

| Information Element | Value/remark |
|------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-E |
| Message type | 0001 1001 B |

FACILITY with Return Result component (Step 20)

| Information Element | Value/remark |
|----------------------------------|---|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in step 18 |
| Message Type | 0011 1010 B |
| Facility IE | |
| - Length of Facility IE contents | 5 |
| - Component type tag | 1010 0010 B (return result) |
| - Component length | 3 |
| - Invoke ID tag | 0000 0010 B (invoke ID) |
| - Invoke ID length | 1 |
| - Invoke ID | The same value that has been used in step 18 |
| - Operation Code tag | not present |
| - Operation Code length | not present |
| - Operation Code | not present |
| - Parameters | not present |

7.2.3.3.1.10 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-D in state U7 "Call received"

7.2.3.3.1.10.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.10.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.10.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|---|
| | UE | SS | | |
| 1 | | | The UE is made to have a MultiParty call to two destinations (Call A-B and Call A-C) active. Both call states shall be U10 "Active" with auxiliary state "Call in MPTY". A mobile terminating call is set up between the UE and destination D (Call A-D). | This state is achieved by the procedure given in section 7.2.3.3.1.5. |
| 2 | ← | | SETUP | CC |
| 3 | → | | CALL CONFIRMED | CC |
| 4 | → | | ALERTING | CC |

7.2.3.3.1.10.4 Specific message contents

All Specific message contents shall be referred to clause 9.

SETUP (Step 2)

| Information Element | Value/remark |
|------------------------|--|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | A value that has not been used in Call A-B or Call A-C |
| Message type | 0000 0101 B |
| BC repeat indicator | not present |

| Information Element | Value/remark |
|--|--------------|
| Bearer capability 1 | Present |
| - Bearer capability IEI | 0000 0100 B |
| - Length of the bearer capability contents | 1 |
| - octet 3 | |
| - Extension | 1 B |
| - Radio Channel Requirement | 01 B |
| - Coding Standard | 0 B |
| - Transfer Mode | 0 B |
| - Information Transfer Capability | 000 B |
| Bearer capability 2 | not present |
| Facility | not present |
| Progress indicator | not present |
| Signal | Present |
| - Signal IEI | 0011 0100 B |
| - Signal Value | 0000 0111 B |
| Calling party BCD Number | not present |
| Calling party sub-Address | not present |
| Called party BCD Number | not present |
| Called party sub-Address | not present |
| Redirecting party BCD number | not present |
| Redirecting party sub-address | not present |
| LLC repeat indicator | not present |
| Low layer Compatibility I | not present |
| Low layer Compatibility II | not present |
| HLC repeat indicator | not present |
| High layer Compatibility i | not present |
| High layer Compatibility ii | not present |
| User-user | not present |
| Priority | not present |
| Alert | not present |
| Network Call Control Capabilities | not present |
| Cause of No CLI | not present |
| Backup bearer capability | not present |

7.2.4 Session setup

7.2.4.1 Generic session set up procedure for mobile terminating packet switched sessions

7.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.4.1.2 Definition of system information messages

The default system information messages are used.

7.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|-------------------------------|-----------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |

| | | | |
|----|---|---------------------------------------|----------------------|
| 5 | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | SERVICE REQUEST | GMM |
| 7 | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | ← | SECURITY MODE COMMAND | RRC |
| 10 | → | SECURITY MODE COMPLETE | RRC |
| 11 | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 12 | → | ACTIVATE PDP CONTEXT REQUEST | SM (NOTE 1, NOTE 2) |
| 13 | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 14 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | ACTIVATE PDP CONTEXT ACCEPT | SM |

NOTE 1: The UE implemented according to the Rel-7 and earlier versions of the specification may include static PDP address. The UE implemented according to the Rel-8 and later versions of the specification shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message. In UTRA-EUTRA test cases IPv4 and/or IPv6 address (set as per PIXIT) is included in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: UEs supporting S1 mode shall indicate subscribed, interactive or background traffic class in the QoS requested. UEs not supporting S1 mode should indicate subscribed, interactive or background traffic class in the QoS requested.

NOTE 3: In RAN Assisted WLAN interworking test cases in the ACTIVATE PDP CONTEXT ACCEPT message WLAN Offload Indication is set as '0010'B indicating Offloading of the PDN connection is allowed.

7.2.4.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.4.2 Generic session set up procedure for mobile originating packet switched sessions

7.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.4.2.2 Definition of system information messages

The default system information messages are used.

7.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|-----------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | → | | SERVICE REQUEST | GMM |
| 6 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | ← | | SECURITY MODE COMMAND | RRC |

| | | | |
|----|---|------------------------------|---------------------|
| 9 | → | SECURITY MODE COMPLETE | RRC |
| 10 | → | ACTIVATE PDP CONTEXT REQUEST | SM (NOTE 1, NOTE 2) |
| 11 | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 12 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 13 | ← | ACTIVATE PDP CONTEXT ACCEPT | SM |

NOTE 1: The UE implemented according to the Rel-7 and earlier versions of the specification may include static PDP address. The UE implemented according to the Rel-8 and later versions of the specification shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message. In UTRA-EUTRA test cases IPv4 and/or IPv6 address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: UEs supporting S1 mode shall indicate subscribed, interactive or background traffic class in the QoS requested. UEs not supporting S1 mode should indicate subscribed, interactive or background traffic class in the QoS requested.

NOTE 3: In RAN Assisted WLAN interworking test cases in the ACTIVATE PDP CONTEXT ACCEPT message WLAN Offload Indication is set as '0010'B indicating Offloading of the PDN connection is allowed.

7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.5 IMS Emergency Call setup

7.2.5.1 Generic IMS Emergency call set up procedure for mobile originating packet switched sessions – Normal Service

7.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 7).
- The Test-USIM shall be inserted and is capable of making Emergency Call.

7.2.5.1.2 Definition of system information messages

The default system information messages are used.

7.2.5.1.3 Procedure

The Emergency IMS Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|----------------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | | Make the UE attempt an IMS Emergency call | |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) with 'establishmentCause' set to 'emergency' | NOTE 1 |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | SECURITY MODE COMMAND | RRC |
| 8 | | → | SECURITY MODE COMPLETE | RRC |
| 9 | | → | ACTIVATE PDP CONTEXT REQUEST with 'Request Type' set to 'Emergency' | SM (NOTE 2, NOTE 3) |

| | | | |
|----|---|--|---|
| 10 | ← | RADIO BEARER SETUP | The SS establishes the AM RAB for IMS signalling |
| 11 | → | RADIO BEARER SETUP COMPLETE | EXCEPTION: In parallel to the events described in steps 15 to 21 below, the behaviour in steps 13 and 14 occurs |
| 12 | | | |
| 13 | | | Steps 1-4 defined in annex C.20 in TS 34.229-1 [46] |
| 14 | | | Steps defined in annex C22 in TS 34.229-1[46] |
| 15 | ← | ACTIVATE PDP CONTEXT ACCEPT | The SS accepts the PDP context |
| 16 | ← | REQUEST SECONDARY PDP CONTEXT ACTIVATION | The SS requests a Secondary PDP context activation and starts timer T3385 (NOTE 4) |
| 17 | → | ACTIVATE SECONDARY PDP CONTEXT REQUEST | The UE requests a Secondary PDP context activation, enters the state PDP-ACTIVE-PENDING and starts timer T3380 (NOTE 4) |
| 18 | | | The SS stops timer T3385 |
| 19 | ← | RADIO BEARER SETUP | The SS establishes the UM RAB for IMS voice |
| 20 | → | RADIO BEARER SETUP COMPLETE | The SS accepts the Secondary PDP context activation with the requested QoS |
| 21 | ← | ACTIVATE SECONDARY PDP CONTEXT ACCEPT | |

NOTE 1: The RRC establishment cause will be set to "Emergency".

NOTE 2: The UE shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP and/or IPv6 address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 3: The UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

NOTE 4: 'Conversational' is included in the QoS in the REQUEST SECONDARY PDP CONTEXT ACTIVATION and in the ACTIVATE SECONDARY PDP CONTEXT REQUEST message sent by the UE.

7.2.5.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

Step 5: The UE transmits an *RRCConnectionSetupComplete* message to confirm the successful completion of the connection establishment and

Step 6: The UE transmits the SERVICE REQUEST message.

Step 7: The SS transmits a *SecurityModeCommand* message to activate AS security.

Step 8: The UE transmits a *SecurityModeComplete* message and establishes the initial security configuration.

Step 9: UE transmits an Activate PDP Context Request message with Request Type set to Emergency with a PDP type number "IPv4v6 address" in the Requested PDP address information element. See TS 34.229 Annex C.17

Step 10: SS sends Radio Bearer Setup message - Use the same message as specified for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH", condition A17c.

Step 19: Use the following specific message content:

RADIO BEARER SETUP

| Information Element | Value/remark |
|---|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Integrity protection mode info | Not Present |
| Ciphering mode info | Not Present |
| Activation time | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ |
| New U-RNTI | Not Present |
| New C-RNTI | Not Present |
| New DSCH-RNTI | Not Present |
| New H-RNTI | '1010 1010 1010 1010' |
| New Primary E-RNTI | '1010 1010 1010 1010' |
| New Secondary E-RNTI | Not Present |
| RRC State indicator | CELL_DCH |
| UTRAN DRX cycle length coefficient | Not Present |
| CN information info | Not Present |
| URA identity | Not Present |
| RNC support for change of UE capability | Not Present |
| CHOICE Specification mode | Complete specification |
| - Signalling RB information to setup | Not Present |
| - RAB information for setup | |
| - RAB info | (Conversational UM DTCH for PS domain) |
| - RAB identity | 0000 0110B |
| | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |
| - CN domain identity | PS domain |
| - NAS Synchronization Indicator | Not Present |
| - Re-establishment timer | useT314 |
| - RB information to setup | |
| - RB identity | 27 |
| - PDCP info | |
| - Support for lossless SRNS relocation | FALSE |
| - Max PDCP SN window size | Not present |
| - PDCP PDU header | Present |
| - Header compression information | |
| - CHOICE algorithm type | |
| - RFC3095 | |
| - Profiles | 2 profiles |
| - Profile instance | 1 |
| - Profile instance | 2 |
| - Uplink | |
| - Max_CID | 15 |
| - Downlink | |
| - Max_CID | 15 |
| - Reverse-Decompression_Depth | 0 |
| - CHOICE RLC info type | RLC info |
| - CHOICE Uplink RLC mode | UM RLC |
| - Transmission RLC discard | Not present |
| - CHOICE Downlink RLC mode | UM RLC |

| | |
|---|---|
| - DL UM RLC LI size | 7 |
| - DL Reception Window Size | 32 |
| - One sided RLC re-establishment | FALSE |
| - Alternative E-bit interpretation | Not present |
| - RB mapping info | |
| - Information for each multiplexing option | 1 RBMuxOption |
| - RLC logical channel mapping indicator | Not Present |
| - Number of uplink RLC logical channels | 1 |
| - Uplink transport channel type | E-DCH |
| - Logical channel identity | 9 |
| - E-DCH MAC-d flow identity | 4 |
| - CHOICE RLC PDU size | Fixed size |
| - DDI | 7 |
| - RLC PDU size list | 12 RLC PDU sizes |
| - RLC PDU size | 96 bits |
| - RLC PDU size | 112 bits |
| - RLC PDU size | 144 bits |
| - RLC PDU size | 160 bits |
| - RLC PDU size | 176 bits |
| - RLC PDU size | 192 bits |
| - RLC PDU size | 208 bits |
| - RLC PDU size | 224 bits |
| - RLC PDU size | 288 bits |
| - RLC PDU size | 296 bits |
| - RLC PDU size | 312 bits |
| - RLC PDU size | 336 bits |
| - Include in scheduling info | TRUE |
| - MAC logical channel priority | 8 |
| - Downlink RLC logical channel info | |
| - Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | HS-DSCH |
| - DL DCH Transport channel identity | Not present |
| - DL DSCH Transport channel identity | Not present |
| - DL HS-DSCH MAC-d flow identity | 3 |
| - Logical channel identity | Not Present |
| RB information to reconfigure list | Not Present |
| RB information to be affected | Not Present |
| Downlink counter synchronization info | Not Present |
| PDCP ROHC target mode | |
| - Target Mode | O-mode |
| UL Transport channel information for all transport channels | Not Present |
| Deleted UL TrCH information | Not Present |
| Added or Reconfigured UL TrCH information | 1 E-DCH with one DCCH MAC-d flow and two DTCH MAC-d flows |
| - Uplink transport channel type | E-DCH |
| - CHOICE UL parameters | E-DCH |
| - UL MAC header type | Not present |
| - UL MAC header type | MAC-e/es |
| - CHOICE mode | FDD |
| - E-DCH Transmission Time Interval | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |
| - HARQ info for E-DCH | |
| - HARQ RV Configuration | rvtable |
| - Added or reconfigured E-DCH MAC-d flow | (for DCCH) |
| - E-DCH MAC-d flow identity | 1 |
| - E-DCH MAC-d flow power offset | 0 |
| - E-DCH MAC-d flow maximum number of retransmissions | 7 |
| - E-DCH MAC-d flow multiplexing list | Not Present |
| - CHOICE transmission grant type | Non-scheduled grant info |
| - Max MAC-e PDU contents size | 168 bits |
| - 2 ms non-scheduled transmission grant | Not Present |
| HARQ process allocation | |
| - Added or reconfigured E-DCH MAC-d flow | (for first DTCH) |
| - E-DCH MAC-d flow identity | 2 |
| - E-DCH MAC-d flow power offset | 0 |

| | |
|---|---|
| - E-DCH MAC-d flow maximum number of retransmissions | 7 |
| - E-DCH MAC-d flow multiplexing list | Not Present |
| - CHOICE transmission grant type | Scheduled grant info (for second DTCH) |
| - Added or reconfigured E-DCH MAC-d flow | 3 |
| - E-DCH MAC-d flow identity | 0 |
| - E-DCH MAC-d flow power offset | 7 |
| - E-DCH MAC-d flow maximum number of retransmissions | |
| - CHOICE transmission grant type | Scheduled grant info |
| DL Transport channel information common for all transport channel | Not Present |
| Deleted DL TrCH information | Not Present |
| Added or Reconfigured DL TrCH information | DCH for DCCH and HS-DSCH for 3 DTCHs |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 10 |
| - CHOICE DL parameters | Explicit |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | |
| - RLC Size | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) |
| - Number of TBs and TTI List | Not Present |
| - Transmission Time Interval | Reference to clause 6.10 Parameter Set |
| - Number of Transport blocks | All |
| - CHOICE Logical channel list | |
| - Semi-static Transport Format information | Reference to clause 6.10 Parameter Set |
| - Transmission time interval | Reference to clause 6.10 Parameter Set |
| - Type of channel coding | Reference to clause 6.10 Parameter Set |
| - Coding Rate | Reference to clause 6.10 Parameter Set |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set |
| - CRC size | Reference to clause 6.10 Parameter Set |
| - DCH quality target | |
| - BLER Quality value | -20 (-2.0) |
| - Downlink transport channel type | HS-DSCH |
| - DL Transport channel identity | Not Present |
| - CHOICE DL parameters | HS-DSCH |
| - HARQ Info | |
| - Number of Processes | Reference to clause 6.10.2.4.5 Parameter Set |
| - CHOICE <i>Memory Partitioning</i> | Implicit |
| - CHOICE <i>DL MAC header type</i> | MAC-ehs |
| - Added or reconfigured MAC-ehs reordering | |
| queue | |
| - MAC-ehs queue to add or reconfigure list | (three queues) |
| - MAC-ehs queue Id | 2 (for first DTCH) |
| - T1 | 50 |
| - MAC-ehs window size | 16 |
| - MAC-ehs queue Id | 3 (for second DTCH) |
| - T1 | 50 |
| - MAC-ehs window size | 16 |
| - DCH quality target | Not present |
| Frequency info | |
| - UARFCN uplink (Nu) | Reference to clause 5.1 Test frequencies. This IE should be present, if the default duplex distance defined for the operating frequency band is not used and frequency is different from the current frequency, otherwise set to Not Present. |
| - UARFCN downlink (Nd) | Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present. |
| Maximum allowed UL TX power | 33dBm |
| Uplink DPCH info | |
| - Uplink DPCH power control info | |
| - DPCCH power offset | -40 (-80dB) |
| - PC Preamble | 1 frame |
| - SRB delay | 7 frames |
| - Power Control Algorithm | Algorithm1 |
| - TPC step size | 0 (1dB) |

| | |
|---|---|
| - Δ_{ACK} | 3 |
| - Δ_{NACK} | 3 |
| - Ack-Nack repetition factor | 1 |
| - HARQ_preamble_mode | 0 |
| - Scrambling code type | Long |
| - Scrambling code number | 0 (0 to 16777215) |
| - Number of DPDCH | 0 |
| - spreading factor | Not Present |
| - TFCI existence | FALSE |
| - Number of FBI bit | Not Present |
| - Puncturing Limit | Not Present |
| - Number of TPC bits | Not Present |
| E-DCH info | |
| - MAC-es/e reset indicator | TRUE |
| - E-DPCCH info | |
| - E-DPCCH/DPCCH power offset | 0 |
| - Happy bit delay condition | 100 ms |
| - E-TFC Boost Info | Not Present |
| - E-DPDCH power interpolation | Not Present |
| - E-DPDCH info | |
| - E-TFCI table index | 0 |
| - E-DCH minimum set E-TFCI | 9 |
| - Reference E-TFCIs | 2 E-TFCIs |
| - Reference E-TFCI | 11 |
| - Reference E-TFCI PO | 4 |
| - Reference E-TFCI | 83 |
| - Reference E-TFCI PO | 16 |
| - Maximum channelisation codes | 2sf4 |
| - PLnon-max | 0.84 |
| - Scheduling Information Configuration | |
| - Periodicity for Scheduling Info – no grant | Not present |
| - Periodicity for Scheduling Info – grant | Not present |
| - Power Offset for Scheduling Info | 0 |
| - 3-Index-Step Threshold | Not present |
| - 2-Index-Step Threshold | Not present |
| - Scheduled Transmission configuration | |
| - 2ms scheduled transmission grant HARQ process | Not present |
| allocation | |
| - Serving Grant | Not present |
| -UL 16QAM settings | Not Present |
| Downlink HS-PDSCH Information | |
| - HS-SCCH Info | |
| - CHOICE mode | FDD |
| - DL Scrambling Code | Not present |
| - HS-SCCH Channelisation Code Information | |
| - HS-SCCH Channelisation Code | 7 |
| - Measurement Feedback Info | |
| - CHOICE mode | FDD |
| - POhsdsch | 6 dB |
| - CQI Feedback cycle, k | 4 ms |
| - CQI repetition factor | 1 |
| - Δ_{CQI} | 5 (corresponds to 0dB in relative power offset) |
| - CHOICE mode | FDD (no data) |
| - Downlink 64QAM configured | TRUE |
| - HS-DSCH TB size table | Not present |
| Downlink information common for all radio links | |
| - Downlink F-DPCH info common for all RL | |
| - Timing Indication | Maintain |
| - Timing maintained Synchronization indicator | FALSE |
| - Downlink F-DPCH power control information | |
| - DPC mode | 0 (single) |
| - TPC command error rate target | 0.04 |
| - CHOICE mode | FDD |
| - DPCH compressed mode info | Not Present |
| - TX Diversity mode | None |
| - Default DPCH Offset Value | Not Present |
| - MAC-hs reset indicator | Not Present |
| Downlink information for each radio link list | |

| | |
|--|---|
| - Downlink information for each radio link | |
| - Choice mode | FDD |
| - Primary CPICH info | Ref. to the Default setting in clause 6.1 (FDD) |
| - Primary scrambling code | TRUE |
| - Serving HS-DSCH radio link indicator | TRUE |
| - Serving E-DCH radio link indicator | Not Present |
| - Downlink DPCH info for each RL | |
| - Downlink F-DPCH info for each RL | Primary CPICH may be used |
| - Primary CPICH usage for channel estimation | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |
| - F-DPCH frame offset | 3 if UE supports enhanced F-DPCH, otherwise Not Present |
| - F-DPCH slot format | Present |
| - Secondary CPICH info | Not Present |
| - Secondary scrambling code | Not Present |
| - Code number | 12 |
| - TPC combination index | 0 |
| - E-AGCH Info | |
| - E-AGCH Channelisation Code | 10 |
| - CHOICE E-HICH Information | |
| - E-HICH Information | |
| - Channelisation code | 4 |
| - Signature sequence | 1 |
| - CHOICE E-RGCH Information | Not Present |
| MBMS PL Service Restriction Information | Not Present |

7.2.5.2 Generic IMS Emergency call set up procedure for mobile originating packet switched sessions – Limited Service

7.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE is in GMM-DEREGISTERED.LIMITED-SERVICE state. .
- The Test-USIM shall be inserted and is capable of making Emergency Call.

7.2.5.2.2 Definition of system information messages

The default system information messages are used, except the SIB3 contents specified in 7.2.5.2.4.

7.2.5.2.3 Procedure

The establishment of Emergency IMS Call Set-up procedure is assumed to be mobile originated.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|----------|
| | UE | SS | | |
| 1 | | | Make the UE attempt an IMS Emergency call | |
| 2 | → | | RRC CONNECTION REQUEST (CCCH) with 'establishmentCause' set to 'emergency' | |
| 3 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | → | | ATTACH REQUEST with Attach Type set to "Emergency Attach" | GMM |
| 6 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | ← | | SECURITY MODE COMMAND | RRC |
| 9 | → | | SECURITY MODE COMPLETE | RRC |
| 10 | ← | | ATTACH ACCEPT | GMM |
| 11 | → | | ATTACH COMPLETE | GMM |

| | | | |
|----|---|---|---|
| 12 | → | ACTIVATE PDP CONTEXT REQUEST with 'Request Type' set to 'Emergency' | SM (NOTE 1, NOTE 2) |
| 13 | ← | RADIO BEARER SETUP | The SS establishes the AM RAB for IMS signalling |
| 14 | → | RADIO BEARER SETUP COMPLETE | |
| 15 | | | EXCEPTION: In parallel to the events described in steps 17 to 23 below, the behaviour in steps 16 occurs. |
| 16 | | | Steps defined in annex C22 in TS 34.229-1[46] |
| 17 | ← | ACTIVATE PDP CONTEXT ACCEPT | The SS accepts the PDP context |
| 18 | ← | REQUEST SECONDARY PDP CONTEXT ACTIVATION | The SS requests a Secondary PDP context activation and starts timer T3385 (NOTE 3) |
| 19 | → | ACTIVATE SECONDARY PDP CONTEXT REQUEST | The UE requests a Secondary PDP context activation, enters the state PDP-ACTIVE-PENDING and starts timer T3380 (NOTE 3) |
| 20 | | | The SS stops timer T3385 |
| 21 | ← | RADIO BEARER SETUP | The SS establishes the UM RAB for IMS voice |
| 22 | → | RADIO BEARER SETUP COMPLETE | |
| 23 | ← | ACTIVATE SECONDARY PDP CONTEXT ACCEPT | The SS accepts the Secondary PDP context activation with the requested QoS |

NOTE 1: The UE shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 and/or IPv6 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: The UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

NOTE 3: 'Conversational' is included in the QoS in the REQUEST SECONDARY PDP CONTEXT ACTIVATION and in the ACTIVATE SECONDARY PDP CONTEXT REQUEST message sent by the UE.

7.2.5.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

SYSTEM INFORMATION BLOCK TYPE 3 (Step 1)

The same content as in default message in TS 34.108 section 6.1.0b with the following exceptions:

| Information Element | Value/remark |
|---------------------------------|---|
| IMS Emergency Support Indicator | This IE specifies the support of IMS emergency call in the cell for limited service mode UE |

Step 4: The UE transmits an *RRCConnectionSetupComplete* message to confirm the successful completion of the connection establishment

ATTACH REQUEST (Step 5)

| Information Element | Value/remark |
|---------------------------------|---|
| Attach Request message identity | Emergency Attach, Follow-on request pending |
| Mobile identity | IMSI |

Step 8: The SS transmits a *SecurityModeCommand* message to activate AS security.

Step 9: The UE transmits a *SecurityModeComplete* message and establishes the initial security configuration.

ATTACH ACCEPT (Step 10)

| Information Element | Value/remark |
|---|---|
| Emergency number list | 10 numbers (TS 24.008, 10.5.3.13) The numbers shall be different than any of those indicated in TS 22.101 clause 10.1.1 AND the numbers stored in the USIM |
| Network feature support information element | Emergency bearer services supported in lu mode, but not supported in A/Gb mode |

Step 12: UE transmits a Activate PDP Context Request message with Request Type set to Emergency with a PDP type number "IPv4v6 address" in the Requested PDP address information element. See TS 34.229 Annex C.17

Step 13: SS sends Radio Bearer Setup message - Use the same message as specified in clause 7.2.5.1.4 step 10

Step 21: SS sends Radio Bearer Setup message - Use the same message as specified in clause 7.2.5.1.4 step 19.

7.2.6 IP address allocation

UE IP address is allocated during the mobile originating packet switched sessions procedure referred to 7.2.4.2.

If UE supports IPv4/IPv6 or IPv6, a full IPv6 address is allocated to UE via NAS signalling in the PDP CONTEXT ACCEPT message. Once the PDP context is established, if the UE supports IPv6 it may perform IPv6 Stateless Address Autoconfiguration. The UE sends an **ICMPv6 Router Solicitation** message; as response the network sends an **ICMPv6 Router Advertisement** message.

Depending on the UE configuration there may be unpredictable delay in the start of the Stateless Address Auto configuration procedure. A guarding time of 1.2 sec is granted within which the procedure is expected to start. If the timer expires then the test shall advance to the next specified step in the test sequence.

7.3 Test procedures for RF test

NOTE: In general parameters defined for specific test cases in 3GPP TS 34.121 [2] take priority over the default parameters defined in the present document.

7.3.1 UE Test States for RF testing

In this clause, the states of the UE for the test are defined. For RF testing the same UE test states as specified in section 7.2.1 apply plus an additional RB Test Mode State. The RB Test Mode State can be reached from the UE States 2, 3 and 7 according to section 7.2.1. For this RB Test Mode State the different protocols shall be in the following states:

| | RRC | CC | MM | SM | GMM |
|--|-----------|------|----------|--------------|------------------------|
| RB Test Mode State | connected | null | see Note | pdp-inactive | same as previous state |
| NOTE: The MM state is "MM connection active" if an RRC connection exists for the CS domain otherwise it is "same as previous state". | | | | | |

7.3.2 Test procedure for TX, RX and Performance Requirement (without handover)

7.3.2.1 Initial conditions

System Simulator

- test cases using 1 cell:
 - 1cell, default parameters.
- other test cases using this test procedure:
 - Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.2.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.2.3 Procedure

7.3.2.3.1 For UE supporting CS

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|--------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |

| | | | |
|----|---|---------------------------------|---|
| 6 | → | PAGING RESPONSE | RR |
| 7 | ← | AUTHENTICATION REQUEST | MM |
| 8 | → | AUTHENTICATION RESPONSE | MM |
| 9 | ← | SECURITY MODE COMMAND | RRC |
| 10 | → | SECURITY MODE COMPLETE | RRC |
| 11 | ← | ACTIVATE RB TEST MODE | TC |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 14 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 16 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | ← | OPEN UE TEST LOOP | TC |
| 18 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 19 | ← | RRC CONNECTION RELEASE | RRC |
| 20 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.2.3.2 For UE supporting PS only

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | SERVICE REQUEST | GMM |
| 7 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | ACTIVATE RB TEST MODE | TC |
| 12 | → | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 14 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 16 | → | | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | ← | | OPEN UE TEST LOOP | TC |
| 18 | → | | OPEN UE TEST LOOP COMPLETE | TC |
| 19 | ← | | RRC CONNECTION RELEASE | RRC |
| 20 | → | | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.2.3.3 For CS+PS multi RAB combination

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|--------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |

| | | | |
|----|---|---------------------------------|---|
| 11 | ← | PAGING TYPE 2 (DCCH) | TMSI (GSM-MAP)/ P-TMSI |
| 12 | → | SERVICE REQUEST | GMM |
| 13 | ← | SECURITY MODE COMMAND | RRC |
| 14 | → | SECURITY MODE COMPLETE | RRC |
| 15 | ← | ACTIVATE RB TEST MODE | TC |
| 16 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 17 | ← | RADIO BEARER SETUP | RRC CS radio bearer(s) are configured |
| 18 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 19 | ← | RADIO BEARER SETUP | RRC PS radio bearer(s) are configured |
| 20 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 22 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 23 | ← | OPEN UE TEST LOOP | TC |
| 24 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 25 | ← | RRC CONNECTION RELEASE | RRC |
| 26 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.2.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.2.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.2.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in 3GPP TS 34.121 [2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.2.4.3 Void

7.3.2.4.4 Compressed mode

[T.B.D]

7.3.2.4.5 Transmit diversity mode

[T.B.D]

7.3.3 Test procedure for test cases using Cell_PCH or URA_PCH state

7.3.3.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.

- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.3.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.3.3 Procedure

7.3.3.3.1 For UE supporting PS

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------------------------|
| | UE | SS | | |
| 1 | | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | | ← | SECURITY MODE COMMAND | RRC |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |

| | | | |
|----|---|---|--|
| 13 | ← | RADIO BEARER SETUP | RRC - RAB SETUP using Reference Radio Bearer Configuration |
| 14 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | PHYSICAL CHANNEL RECONFIGURATION | RRC - RRC state indicator is set to "Cell_PCH" or "URA_PCH" depending on the test case |
| 16 | → | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC The UE sends this message before it completes state transition. |
| 17 | | Void | SS sends the L2 ack on the PHYSICAL CHANNEL RECONFIGURATION COMPLETE message. NOTE: The SS should continue to keep the dedicated channel configuration during the time when the L2 ack is sent to the UE. |

7.3.3.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

The RADIO BEARER SETUP message is defined in clause 9.2.1, "Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)".

The PHYSICAL CHANNEL RECONFIGURATION message is defined in clause 9.1.1, "Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM" using condition A8 for URA_PCH and condition A10 for Cell_PCH.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.4 Test procedure for Handover

NOTE: This test procedure is also used for some other test cases involving more than 1 cell.

7.3.4.1 Initial conditions

System Simulator:

- Intra-frequency hard handover and soft handover (for FDD) case:
 - 2 cells, default parameters according to Cell 1 and Cell 2 in clause 6.1.4.
- Inter-frequency hard handover case:
 - 2 cells, default parameters according to Cell 1 and Cell 4 in clause 6.1.4.
- Inter-system handover UTRAN to GSM case:
 - 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.
- other test cases using this test procedure:
 - Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] for FDD and TS 34.122 [5] for TDD and take priority over the default parameters.

UserEquipment:

- The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.4.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

For the intra-frequency hard handover and soft handover (for FDD) case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 2 in clause 6.1.4 are used.

For the inter-frequency hard handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 4 in clause 6.1.4 are used.

For the inter-system handover from UTRAN to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

7.3.4.3 Procedure

7.3.4.3.1 For UE supporting CS

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------|-----------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |

| | | | |
|----|---|--------------------------------------|---|
| 2 | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | PAGING RESPONSE | RR |
| 7 | ← | AUTHENTICATION REQUEST | MM |
| 8 | → | AUTHENTICATION RESPONSE | MM |
| 9 | ← | SECURITY MODE COMMAND | RRC |
| 10 | → | SECURITY MODE COMPLETE | RRC |
| 11 | ← | ACTIVATE RB TEST MODE | TC |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | RADIO BEARER SETUP | RRC - RAB SETUP using Reference Radio Bearer Configuration - RRC state indicator is set to "CELL_DCH" |
| 14 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | RRC CONNECTION RELEASE | RRC |
| 16 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.4.3.2 For UE supporting PS only

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | | ← | SECURITY MODE COMMAND | RRC |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | | ← | RADIO BEARER SETUP | RRC - RAB SETUP using Reference Radio Bearer Configuration - RRC state indicator is set to "CELL_DCH" |
| 14 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | | ← | RRC CONNECTION RELEASE | RRC |
| 16 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.4.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.5 Test procedure for test cases using CELL_FACH state

7.3.5.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.5.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.5.3 Procedure

7.3.5.3.1 For UE supporting CS

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|--------------------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |

| | | | |
|----|---|----------------------------------|-----|
| 7 | ← | AUTHENTICATION REQUEST | MM |
| 8 | → | AUTHENTICATION RESPONSE | MM |
| 9 | ← | SECURITY MODE COMMAND | RRC |
| 10 | → | SECURITY MODE COMPLETE | RRC |
| 11 | ← | ACTIVATE RB TEST MODE | TC |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | DEACTIVATE RB TEST MODE | TC |
| 14 | → | DEACTIVATE RB TEST MODE COMPLETE | TC |
| 15 | ← | RRC CONNECTION RELEASE | RRC |
| 16 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.5.3.2 For UE supporting PS only

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | SERVICE REQUEST | GMM |
| 7 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | ACTIVATE RB TEST MODE | TC |
| 12 | → | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | | DEACTIVATE RB TEST MODE | TC |
| 14 | → | | DEACTIVATE RB TEST MODE COMPLETE | TC |
| 15 | ← | | RRC CONNECTION RELEASE | RRC |
| 16 | → | | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.5.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)".

7.3.6 Test procedure for HSDPA RF Performance Requirement

7.3.6.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.6.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.6.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |

| | | | |
|-----|------|---------------------------------|--|
| 16 | → | SECURITY MODE COMPLETE | RRC |
| 17 | ← | ACTIVATE RB TEST MODE | TC |
| 18 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA PS) |
| 22 | → | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2) . Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | <--> | | Perform test |
| A26 | ← | OPEN UE TEST LOOP | TC |
| A27 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | ← | RRC CONNECTION RELEASE | RRC |
| 29 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.6.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.6.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.6.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.6.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.3.7 Test procedure for inter-RAT handover used in RRM testing

7.3.7.1 Initial conditions

System Simulator:

- 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.

UserEquipment:

- The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.7.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

For the inter-system handover from UTRAN FDD to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

7.3.7.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------|-----------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING (PCCH) | Paging |

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|-------------------------------|
| | UE | SS | | |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC (Transition to cell DCH) |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | SET UP | CC (see note) |
| 12 | → | | CALL CONFIRMED | CC |
| 13 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 14 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | → | | ALERTING | CC (this message is optional) |
| 16 | → | | CONNECT | CC |
| 17 | ← | | CONNECT ACKNOWLEDGE | CC |

NOTE: The "Signal" information element is not included in the SETUP message.

7.3.7.4 Specific message contents

The default message contents specified in clause 9.1 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.8 Test procedure for inter-RAT cell FACH reselection used in RRM testing

7.3.8.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.8.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|--------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |

| | |
|---|--|
| - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - UE Timers and constants in connected mode - T305 | 00(T3212 is set to infinity) 01 7 Infinity |
|---|--|

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--|---|
| - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset | FDD Not Present FALSE 64 2 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 |

7.3.8.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | → | | SERVICE REQUEST | GMM |
| 6 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 7 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 8 | ← | | SECURITY MODE COMMAND | RRC |
| 9 | → | | SECURITY MODE COMPLETE | RRC |
| 10 | → | | ACTIVATE PDP CONTEXT REQUEST | SM |
| 11 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 12 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 13 | ← | | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.3.8.4 Specific message contents

The default message contents specified in clause 9.1 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)".

7.3.9 Test procedure for E-DCH RF test cases

7.3.9.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.9.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.9.3 Procedure

7.3.9.3.1 For UE transmitting on E-DCH with DCH

| Step | Direction | | Message | Comments |
|------|-----------|------|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | | → | SECURITY MODE COMPLETE | RRC |
| 17 | | ← | ACTIVATE RB TEST MODE | TC |
| 18 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA and E-DCH PS) |
| 22 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) . Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | | <--> | | Perform test |
| A26 | | ← | OPEN UE TEST LOOP | TC |
| A27 | | → | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | | ← | RRC CONNECTION RELEASE | RRC |
| 29 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.9.3.2 For UE transmitting on E-DCH without DCH

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------------------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (PS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |

| | | | |
|-----|------|---------------------------------|---|
| 13 | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA and E-DCH PS) |
| 14 | → | RADIO BEARER SETUP COMPLETE | RRC |
| A15 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) . Test steps A15, A16, A18 and A19 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A16 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | <--> | | Perform test |
| A18 | ← | OPEN UE TEST LOOP | TC |
| A19 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 20 | ← | RRC CONNECTION RELEASE | RRC |
| 21 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.9.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.9.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.9.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD. The configurations of the reference channels for E-DCH RF tests are described in 3GPP TS 34.121[2].

7.3.9.4.3 RRC CONNECTION SETUP

For step 4, the messages in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.3.10 Test procedure for MBMS RF/RRM test cases

7.3.10.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.10.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

As specified in 34.108 clause 6.1.0b with the following exceptions and using condition M2.

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.10.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---|--|
| | UE | SS | | |
| 0 | | | | UE selects the required MBMS broadcast service |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | MBMS MODIFIED SERVICES INFORMATION (MCCH) | No Service in Modified Service list |

| | | | |
|-----|------|--|--|
| 3 | ← | MBMS UNMODIFIED SERVICES INFORMATION (MCCH) | MBMS required UE action " set to acquire PTM RB info". |
| 4 | ← | MBMS GENERAL INFORMATION (MCCH) | |
| 5 | ← | MBMS COMMON P-T-M RB INFORMATION (MCCH) | Contains configuration of the MTCH radio bearer. |
| 6 | ← | MBMS CURRENT CELL P-T-M RB INFORMATION (MCCH) | Indicates the radio bearer configuration to be used for reception of the service. |
| 7 | ← | MBMS NEIGHBOURING CELL P-T-M RB INFORMATION (MCCH) | Optional depending on whether neighbour cells are required. |
| 8 | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 9 | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 10 | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 11 | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 12 | → | SERVICE REQUEST | GMM |
| 13 | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | ← | SECURITY MODE COMMAND | RRC |
| 16 | → | SECURITY MODE COMPLETE | RRC |
| 17 | ← | ACTIVATE RB TEST MODE | TC |
| 18 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | | void | |
| 20 | ← | CLOSE UE TEST LOOP | TC (UE test loop mode 3 set up) The RLC SDU counting shall be performed by the UE |
| 21 | → | CLOSE UE TEST LOOP COMPLETE | TC (test loop mode 3 on MTCH is activated) |
| A22 | ← | PHYSICAL CHANNEL RECONFIGURATION | RRC - RRC state indicator set to "Cell_PCH" Test steps A22 and A23 are only executed when the test method in TS 34.121 [2] specifies that transition to CELL_PCH state is required. |
| A23 | → | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC The UE sends this message before it completes state transition. |
| | <--> | | Perform test. |
| A24 | ← | PAGING TYPE 1 | RRC - RRC state indicator set to "Cell_FACH" Test steps A24, A25 and A26 are only executed when the test method in TS 34.121 [2] specifies that the test is performed in CELL_PCH state. |
| A25 | → | CELL UPDATE | RRC |
| A26 | ← | CELL UPDATE CONFIRM | RRC |
| 27 | ← | OPEN UE TEST LOOP | TC |
| 28 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 29 | ← | RRC CONNECTION RELEASE | RRC |
| 30 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.10.4 Specific message contents

The default message contents specified in clause 9.1.1 are used with the following exceptions.

Contents of MBMS GENERAL INFORMATION message: UM (Step 4)

| Information Element | Value/remark | Version |
|--------------------------------|--------------|---------|
| MICH configuration information | | Rel-6 |
| - MICH Power offset | 0dB | Rel-6 |
| - CHOICE Mode | FDD | Rel-6 |
| - Channelisation code | 7 | Rel-6 |
| - Number of NI per frame | 18 | Rel-6 |
| - STTD indicator | FALSE | Rel-6 |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (Step 5)

For step 5, the message in clause 9.2.1 "Contents of MBMS COMMON P-T-M RB INFORMATION message: UM" is used

Contents of MBMS CURRENT P-T-M RB INFORMATION message: UM (Step 6)

For step 6, the message in clause 9.1.1 "Contents of MBMS CURRENT P-T-M RB INFORMATION message: UM" is used with condition A2.

PHYSICAL CHANNEL RECONFIGURATION (Step A22)

For step A22, the message in clause 9.1.1 "Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM" is used with condition A9 for Cell_PCH.

PAGING TYPE 1 (Step A24)

| Information Element | Value/remark |
|-------------------------------|-------------------------|
| Message Type | |
| Paging record list | |
| -Paging record | |
| - CHOICE Used paging identity | Utran-Identity |
| -U-RNTI | |
| -SRNC-Identity | '000000000001'B |
| -S-RNTI | '00000000000000000001'B |
| BCCH modification info | Not Present |

Contents of ATTACH ACCEPT message: GMM

This message is sent from the SS to the UE.

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.11 Test procedure for HSDPA with F-DPCH RF Performance Requirement

7.3.11.1 Initial conditions

System Simulator:

- 1 HS-DSCH with F-DPCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.11.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | FDD |
| - CHOICE mode | Not Present |
| - Secondary scrambling code | FALSE |
| - STTD indicator | 64 |
| - Spreading factor | 2 |
| - Code number | FALSE |
| - Pilot symbol existence | TRUE (default value) |
| - TFCI existence | Flexible (default value) |
| - Fixed or Flexible position | Not Present |
| - Timing offset | Absence of this IE is equivalent to default value 0 |

7.3.11.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|------|---------------------------------------|-----------------------------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (PS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA with F-DPCH) |
| 14 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | | <--> | | Perform test |
| 16 | | ← | RRC CONNECTION RELEASE | RRC |
| 17 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.11.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.11.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.11.4.2 RADIO BEARER SETUP

For step 13, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA with F-DPCH)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.11.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

7.3.12 Test procedure for HSDPA in CELL_FACH RF Performance Requirement

7.3.12.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.12.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

Additional crucial parameters for the test requirements are repeated in table 7.3.12-1 and these overrule the parameters defined in SIB type 5.

Table 7.3.12.1: UE parameters for Random Access test

| Parameter | Unit | Value |
|--|------------|----------|
| Maximum number of preamble ramping cycles (M_{max}). | | 2 |
| Maximum number of preambles in one preamble ramping cycle (Preamble Retrans Max) | | 2 |
| The backoff time T_{B01} $N_{B01min}=N_{B01max}$ | ms #TTI | N/A 0 |
| Power step when no acquisition indicator is received (Power offset P_0) | dB | 3 |
| Power offset between the last transmitted preamble and the control part of the message (Power offset P_{p-m}) | dB | 0 |
| Maximum allowed UL TX power | dBm | 21 |

7.3.12.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | SERVICE REQUEST | GMM |
| 7 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | ← | | SECURITY MODE COMMAND | RRC |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | ACTIVATE RB TEST MODE | TC |
| 12 | → | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA PS in CELL_FACH) |
| 14 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | ← | | CLOSE UE TEST LOOP | TC (UE test loop mode 1 set up) The RLC SDU counting shall be performed by the SS |
| 16 | → | | CLOSE UE TEST LOOP COMPLETE | TC (test loop mode 1 on DTCH is activated) |
| 17 | <--> | | | Perform test. |
| 18 | ← | | OPEN UE TEST LOOP | TC |
| 19 | → | | OPEN UE TEST LOOP COMPLETE | TC |
| 20 | | | DEACTIVATE RB TEST MODE | TC |
| 21 | | | DEACTIVATE RB TEST MODE COMPLETE | TC |
| 22 | ← | | RRC CONNECTION RELEASE | RRC |

7.3.12.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)".

For step 13, the message in clause 9.1.1, " Contents of RADIO BEARER SETUP message: AM or UM" is used with condition A24. Default parameters are set for "Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK" in clause 6.10.2.4.7.1 using the 10 ms UL TTI alternative with the following exception:

| Information Element | Condition | Value/remark | Version |
|---|-----------|-------------------------------------|---------|
| - Number of uplink RLC logical channels | | 1 | |
| - Uplink transport channel type | | RACH | |
| - UL Transport channel identity | | Not Present | |
| - Logical channel identity | | 7 | |
| - CHOICE RLC size list | | Explicit list | |
| - RLC size index | | Reference to clause 6 Parameter Set | |
| - MAC logical channel priority | | 1 (Note 1) | - |

Note 1: The exception is required to get ASC #0 according to 25.321 section 11.2.1. ASC#0 guarantee persistence value 1 to not cause delay in the RACH procedure.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.13 Test procedure for DC-HSDPA and DB-DC-HSDPA RF tests

7.3.13.1 Initial conditions

System Simulator:

- Dual HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.13.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.13.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|------|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | | → | SECURITY MODE COMPLETE | RRC |
| 17 | | ← | ACTIVATE RB TEST MODE | TC |
| 18 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP DC-HSDPA PS) |
| 22 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 23 | | <--> | | Perform test |
| 24 | | ← | RRC CONNECTION RELEASE | RRC |
| 25 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.13.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.13.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.13.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "RADIO BEARER SETUP message: AM or UM (DC-HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.13.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.3.14 Test procedure for DC-HSUPA RF tests

7.3.14.1 Initial conditions

System Simulator:

- Dual E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.14.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.14.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|------|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | | → | SECURITY MODE COMPLETE | RRC |
| 17 | | ← | ACTIVATE RB TEST MODE | TC |
| 18 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 21 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP DC-HSUPA PS) |
| 22 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 23 | | <--> | | Perform test |
| 24 | | ← | RRC CONNECTION RELEASE | RRC |
| 25 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.14.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.14.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.14.4.2 RADIO BEARER SETUP

The Radio Bearer Setup message is defined in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (DC-HSUPA)".

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.14.4.3 RRC CONNECTION SETUP

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)".

7.3.15 Test procedure for Multiple-cell Performance Requirement for 1,28 Mcps TDD

7.3.15.1 Initial conditions

System Simulator

- Number of cells and parameters for specific tests are defined in TS 34.122 [5] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.15.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 11 (1.28 Mcps TDD)

This is the default message content of SIB 11 for cell 1.

| | | |
|--|--|--|
| <ul style="list-style-type: none"> - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE intra-frequency cell removal - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 1.28 Mcps TDD - Timeslot number - Cell Selection and Re-selection info | | <p>Not Present Absence of this IE is equivalent to default value 1</p> <p>Not present (This IE shall be ignored by the UE for SIB11)</p> <p>1</p> <p>Not present Absence of this IE is equivalent to default value 0dB</p> <p>Not Present FALSE TDD</p> <p>19</p> <p>Not Present Not Present</p> <p>Not Present Not Present (The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 1.28 Mcps TDD - Timeslot number - Cell Selection and Re-selection info | | <p>2</p> <p>Not present Absence of this IE is equivalent to default value 0dB</p> <p>Not Present FALSE TDD</p> <p>58</p> <p>Not Present Not Present</p> <p>Not Present Not Present</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 1.28 Mcps TDD - Timeslot number - Cell Selection and Re-selection info | | <p>3</p> <p>Not present Absence of this IE is equivalent to default value 0dB</p> <p>Not Present FALSE TDD</p> <p>85</p> <p>Not Present Not Present</p> <p>Not Present Not Present</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | | <p>7</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.7(TDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info | | <p>8</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.8(TDD)" in clause 6.1.4</p> |

7.3.15.3 Procedure

7.3.15.3.1 For UE supporting CS

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 14 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 16 | | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | | ← | OPEN UE TEST LOOP | TC |
| 18 | | → | OPEN UE TEST LOOP COMPLETE | TC |
| 19 | | ← | RRC CONNECTION RELEASE | RRC |
| 20 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.15.3.2 For UE supporting PS only

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (PS domain, P-TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | SERVICE REQUEST | GMM |
| 7 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 8 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 9 | | ← | SECURITY MODE COMMAND | RRC |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | ACTIVATE RB TEST MODE | TC |
| 12 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 13 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 14 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 15 | | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 16 | | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | | ← | OPEN UE TEST LOOP | TC |
| 18 | | → | OPEN UE TEST LOOP COMPLETE | TC |
| 19 | | ← | RRC CONNECTION RELEASE | RRC |
| 20 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.15.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.15.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.15.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in 3GPP TS 34.122 [5], annex C for TDD.

7.3.16 Test procedure for 4C-HSDPA RF tests

7.3.16.1 Initial conditions

System Simulator:

- Dual HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.16.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|--------------|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |

| | |
|------------------------------|---|
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.16.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | → | | SERVICE REQUEST | GMM |
| 13 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | ← | | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | → | | SECURITY MODE COMPLETE | RRC |
| 17 | ← | | ACTIVATE RB TEST MODE | TC |
| 18 | → | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP DC-HSDPA PS) |
| 22 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 23 | <--> | | | Perform test |
| 24 | ← | | RRC CONNECTION RELEASE | RRC |
| 25 | → | | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.16.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.16.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.16.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, " RADIO BEARER SETUP message: AM or UM (DC-HSDPA)" is used with secondary serving cell defined as per table 5.0aB or 5.0aC of 3GPP TS 25.101.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.16.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.3.17 Test procedure for TX, RX and Performance Requirement for UL CLTD

7.3.17.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.17.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|--------------|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |

| | |
|------------------------------|---|
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.17.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|------|---------------------------------------|---|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | | → | SECURITY MODE COMPLETE | RRC |
| 17 | | ← | ACTIVATE RB TEST MODE | TC |
| 18 | | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA PS) |
| 22 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | | <--> | | Perform test |
| A26 | | ← | OPEN UE TEST LOOP | TC |
| A27 | | → | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | | ← | RRC CONNECTION RELEASE | RRC |
| 29 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.17.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.17.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.17.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used, with following exceptions.

| Information Element | Value/remark | Version |
|---------------------------------|--|---------|
| Uplink CLTD info FDD | | Rel-11 |
| - CHOICE Mode | New | |
| - S-DPCCH Info | | |
| - S-DPCCH/DPCCH power offset | 0 | |
| - Initial CLTD activation state | First state | |
| - Primary CPICH Info | | |
| - Primary Scrambling Code | Reference to clause 6.1 "Default settings (FDD)" | |

| Information Element | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info | | Rel-11 |
| - F-TPICH slot format | 1 | |
| - F-TPICH Code number | 6 | |
| - F-TPICH frame offset | 1024 | |

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.17.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

7.3.18 Test procedure for TX, RX and Performance Requirement for UL OLTD

7.3.18.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.

- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.18.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.18.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---------------------------------|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | → | | SERVICE REQUEST | GMM |
| 13 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |

| | | | |
|-----|------|---------------------------------|---|
| 15 | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | → | SECURITY MODE COMPLETE | RRC |
| 17 | ← | ACTIVATE RB TEST MODE | TC |
| 18 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA PS) |
| 22 | → | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | <--> | | Perform test |
| A26 | ← | OPEN UE TEST LOOP | TC |
| A27 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | ← | RRC CONNECTION RELEASE | RRC |
| 29 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.18.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.18.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.18.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used, with following exceptions

| Information Element | Value/remark | Version |
|--------------------------|--------------|---------|
| Uplink OLTD info FDD | | Rel-11 |
| - Uplink OLTD activation | TRUE | |

| Information Element | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info | | Rel-11 |
| - F-TPICH slot format | 1 | |
| - F-TPICH Code number | 6 | |
| - F-TPICH frame offset | 1024 | |

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.18.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.3.19 Test procedure for TX, RX and Performance Requirement for UL CLTD with HSDPA & E-DCH

7.3.19.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.19.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|--------------|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | |
| - CHOICE mode | FDD |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |

| | |
|------------------------------|---|
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.19.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--|
| | UE | SS | | |
| 1 | ← | | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | ← | | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | → | | PAGING RESPONSE | RR |
| 7 | ← | | AUTHENTICATION REQUEST | MM |
| 8 | → | | AUTHENTICATION RESPONSE | MM |
| 9 | ← | | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | → | | SECURITY MODE COMPLETE | RRC |
| 11 | ← | | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | → | | SERVICE REQUEST | GMM |
| 13 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 14 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | ← | | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | → | | SECURITY MODE COMPLETE | RRC |
| 17 | ← | | ACTIVATE RB TEST MODE | TC |
| 18 | → | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA and E-DCH PS) |
| 22 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | ← | | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | → | | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | <--> | | | Perform test |
| A26 | ← | | OPEN UE TEST LOOP | TC |
| A27 | → | | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | ← | | RRC CONNECTION RELEASE | RRC |
| 29 | → | | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.19.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.19.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.19.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used, with following exceptions:

| Information Element | Value/remark | Version |
|---------------------------------|--|---------|
| Uplink CLTD info FDD | | Rel-11 |
| - CHOICE Mode | New | |
| - S-DPCCH Info | | |
| - S-DPCCH/DPCCH power offset | 0 | |
| - Initial CLTD activation state | First state | |
| - Primary CPICH Info | | |
| - Primary Scrambling Code | Reference to clause 6.1 "Default settings (FDD)" | |

| Information Element | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info | | Rel-11 |
| - F-TPICH slot format | 1 | |
| - F-TPICH Code number | 6 | |
| - F-TPICH frame offset | 1024 | |

The configurations of the fixed reference channels for HSPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.. The configurations of the reference channels for E-DCH RF tests are described in 3GPP TS 34.121[2].

7.3.19.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

7.3.20 Test procedure for TX, RX and Performance Requirement for UL OLTD with HSDPA & E-DCH

7.3.20.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.

- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

7.3.20.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element | Value/remark |
|---|---------------------------------|
| - CN domain system information | |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - CN domain identity | CS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7 |
| - UE Timers and constants in connected mode | |
| - T305 | Infinity |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin | -115 |

Contents of System Information Block type 5 (FDD)

| Information Element | Value/remark |
|--------------------------------------|---|
| - Secondary CCPCH system information | |
| - Secondary CCPCH info | FDD |
| - CHOICE mode | Not Present |
| - Secondary scrambling code | FALSE |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE (default value) |
| - Fixed or Flexible position | Flexible (default value) |
| - Timing offset | Not Present |
| | Absence of this IE is equivalent to default value 0 |

7.3.20.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|---------------------------------|
| | UE | SS | | |
| 1 | | ← | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2 | | ← | PAGING TYPE1 (PCCH) | Paging (CS domain, TMSI) |
| 3 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 5 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 6 | | → | PAGING RESPONSE | RR |
| 7 | | ← | AUTHENTICATION REQUEST | MM |
| 8 | | → | AUTHENTICATION RESPONSE | MM |
| 9 | | ← | SECURITY MODE COMMAND | RRC (CS domain) |
| 10 | | → | SECURITY MODE COMPLETE | RRC |
| 11 | | ← | PAGING TYPE2 (DCCH) | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12 | | → | SERVICE REQUEST | GMM |
| 13 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |

| | | | |
|-----|------|---------------------------------------|---|
| 14 | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 15 | ← | SECURITY MODE COMMAND | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16 | → | SECURITY MODE COMPLETE | RRC |
| 17 | ← | ACTIVATE RB TEST MODE | TC |
| 18 | → | ACTIVATE RB TEST MODE COMPLETE | TC |
| 19 | ← | RADIO BEARER SETUP | RRC (RAB SETUP RMC 12.2 CS) |
| 20 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 21 | ← | RADIO BEARER SETUP | RRC (RAB SETUP HSDPA and E-DCH PS) |
| 22 | → | RADIO BEARER SETUP COMPLETE | RRC |
| A23 | ← | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | → | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 25 | <--> | | Perform test |
| A26 | ← | OPEN UE TEST LOOP | TC |
| A27 | → | OPEN UE TEST LOOP COMPLETE | TC |
| 28 | ← | RRC CONNECTION RELEASE | RRC |
| 29 | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.3.20.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.20.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element | Value/remark |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

7.3.20.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used, with following exceptions.

| Information Element | Value/remark | Version |
|--------------------------|--------------|---------|
| Uplink OLTD info FDD | | Rel-11 |
| - Uplink OLTD activation | TRUE | |

| Information Element | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info | | Rel-11 |
| - F-TPICH slot format | 1 | |
| - F-TPICH Code number | 6 | |
| - F-TPICH frame offset | 1024 | |

The configurations of the fixed reference channels for HSPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

7.3.20.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Value/remark |
|-----------------------------|---|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

7.4 Common generic procedures for AS testing

7.4.1 UE RRC Test States for common procedures

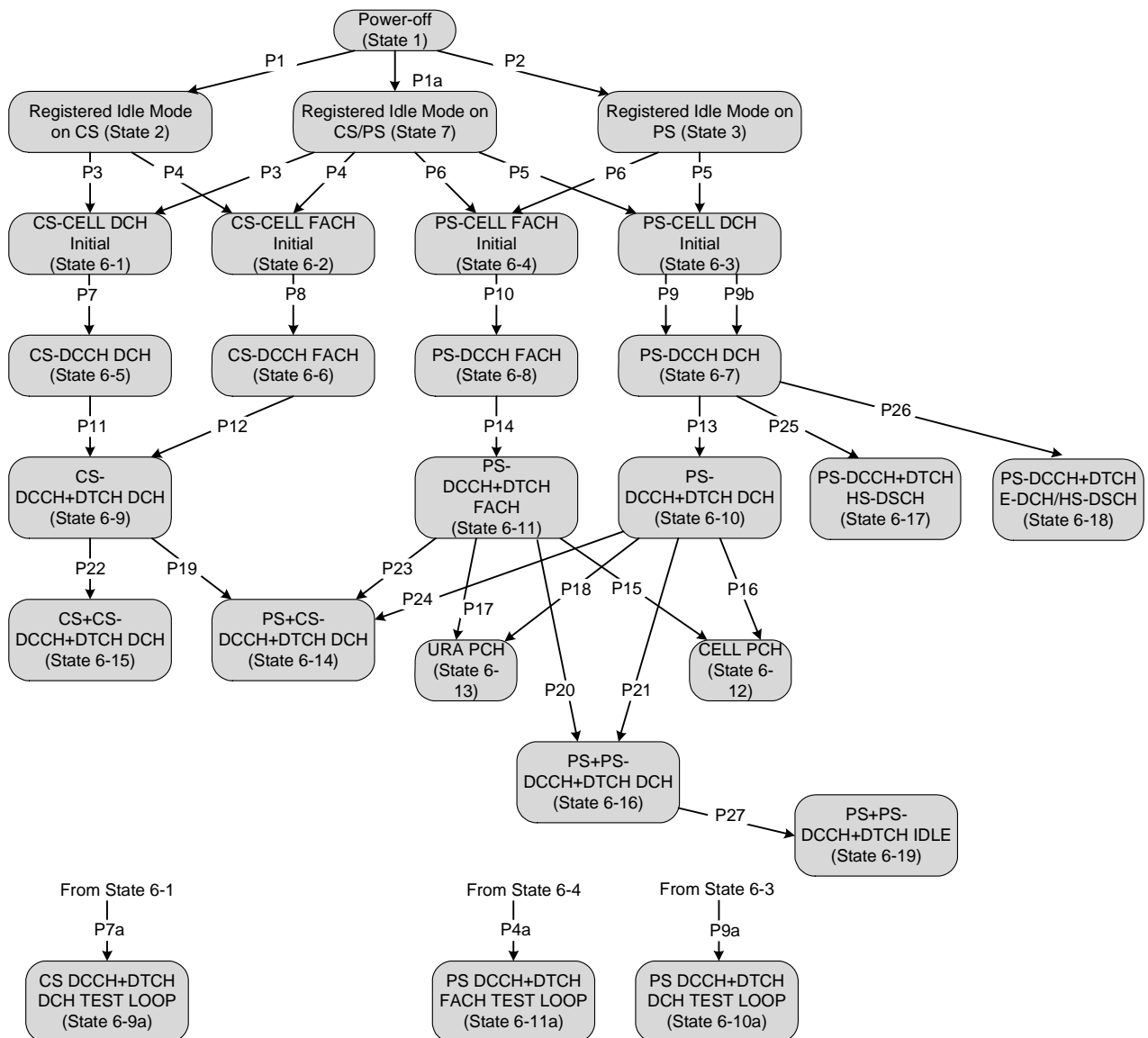


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1; the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

Table 7.4.1.1: The UE states

| | | RRC | CC | MM | SM | GMM |
|----------------------|-------------------------------|-----------------------|-----------|----------------------|--------------------|------------------|
| State 1 | Power OFF | ----- | Null | Null | Pdp-Inactive | GMM-null |
| State 2 | Registered Idle Mode on CS | Idle | Null | MM Idle | Pdp-Inactive | GMM-deregistered |
| State 3 | Registered Idle Mode on PS | Idle | Null | Null | Pdp-Inactive | GMM-registered |
| State 7 | Registered Idle Mode on CS/PS | Idle | Null | MM Idle | Pdp-Inactive | GMM-registered |
| State BGP6-1 | CS-CELL_DCH_Initial | Connected | Null | MM Idle | Pdp-Inactive | As previous |
| State BGP6-2 | CS-CELL_FACH_Initial | Connected | Null | MM Idle | Pdp-Inactive | As previous |
| State BGP6-3 | PS-CELL_DCH_Initial | Connected | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-4 | PS-CELL_FACH_Initial | Connected | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-5 | CS-DCCH_DCH | Connected (CELL_DCH) | Null | MM Idle | Pdp-Inactive | As previous |
| State BGP6-6 | CS-DCCH_FACH | Connected (CELL_FACH) | Null | MM Idle | Pdp-Inactive | As previous |
| State BGP6-7 (NOTE1) | PS-DCCH_DCH | Connected (CELL_DCH) | Null | As previous | Pdp-Active pending | GMM registered |
| State BGP6-8 | PS-DCCH_FACH | Connected (CELL_FACH) | Null | As previous | Pdp-Active pending | GMM registered |
| State BGP6-9 | CS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Active | MM connection active | Pdp-Inactive | As previous |
| State BGP6-9a | CS-DCCH+DTCH_DCH_TEST_LOOP | Connected (CELL_DCH) | Null | MM Idle | Pdp-Inactive | As previous |
| State BGP6-10 | PS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Null | As previous | Pdp-Active | GMM registered |
| State BGP6-10a | PS-DCCH+DTCH_DCH_TEST_LOOP | Connected (CELL_DCH) | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-11 | PS-DCCH+DTCH_FACH | Connected (CELL_FACH) | Null | As previous | Pdp-Active | GMM registered |
| State BGP6-11a | PS-DCCH+DTCH_FACH_TEST_LOOP | Connected (CELL_FACH) | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-12 | CELL_PCH | Connected (CELL_PCH) | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-13 | URA_PCH | Connected (URA_PCH) | Null | As previous | Pdp-Inactive | GMM registered |
| State BGP6-14 | PS+CS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Active | MM connection active | Pdp-Active | GMM registered |
| State BGP6-15 | CS+CS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Active | MM connection active | Pdp-Inactive | As previous |
| State BGP6-16 | PS+PS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Null | As previous | Pdp-Active | GMM registered |
| State BGP6-17 | PS-DCCH+DTCH_HS-DSCH | Connected (CELL_DCH) | Null | As previous | Pdp-Active | GMM registered |
| State BGP6-18 | PS-DCCH+DTCH_E-DCH/HS-DSCH | Connected (CELL_DCH) | Null | As previous | Pdp-Active | GMM registered |
| State BGP6-19 | PS+PS-DCCH+DTCH_Idle | Idle | Null | MM Idle | Pdp-Active | GMM registered |

NOTE1: The default procedure to move from state BGP6-1 to state BGP6-7 is the procedure P9.

State 1, state 2, state 3, P1, P2 and P1a are described in clause 7.2.

7.4.2 Generic Setup Procedure for RRC test cases

7.4.2.1 RRC connection establishment procedure for circuit-switched calls (procedure P3 and P4)

7.4.2.1.1 Mobile terminating call

7.4.2.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

7.4.2.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.1.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|----------|
| | UE | SS | | |
| 1 | | ← | PAGING TYPE 1 (PCCH) | RRC |
| 2 | | → | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | | ← | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | | → | PAGING RESPONSE | RR |

7.4.2.1.1.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9.

To execute procedure P4, all specific message contents with the exception of step 3 shall be referred to clause 9. For step 3, the message of the same type titled "Transition to CELL_FACH" in clause 9 is used.

7.4.2.1.2 Mobile originating calls

7.4.2.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

7.4.2.1.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used.

7.4.2.1.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|----------|
| | UE | SS | | |
| 1 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 2 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 3 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 4 | → | | CM SERVICE REQUEST | MM |

7.4.2.1.2.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9.

To execute procedure P4, all specific message contents with the exception of step 2 shall be referred to clause 9. For step 2, the message of the same type titled "Transition to CELL_FACH" in clause 9 is used.

7.4.2.2 RRC connection establishment procedure for packet switched sessions (procedure P5 and P6)

7.4.2.2.1 Mobile terminating session

7.4.2.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

7.4.2.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|----------|
| | UE | SS | | |
| 1 | ← | | PAGING TYPE1 (PCCH) | Paging |
| 2 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 3 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 4 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 5 | → | | SERVICE REQUEST | GMM |

7.4.2.2.1.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9.

To execute procedure P6, all specific message contents with the exception of step 3 shall be referred to clause 9. For step 3, the message of the same type titled "Transition to CELL_FACH" in clause 9 is used.

7.4.2.2.2 Mobile originating sessions

7.4.2.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.

- The Test USIM shall be inserted.

7.4.2.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------------|----------|
| | UE | SS | | |
| 1 | → | | RRC CONNECTION REQUEST (CCCH) | RRC |
| 2 | ← | | RRC CONNECTION SETUP (CCCH) | RRC |
| 3 | → | | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC |
| 4 | → | | SERVICE REQUEST | GMM |

7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9. For step 2, the message of the same type titled "Transition to CELL_FACH" in clause 9 is used.

7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

7.4.2.3.1 Mobile terminating call

7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

7.4.2.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-------------------------|----------|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION REQUEST | MM |
| 2 | → | | AUTHENTICATION RESPONSE | MM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |
| 5 | ← | | SET UP | CC |
| 6 | → | | CALL CONFIRMED | CC |

7.4.2.3.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

7.4.2.3.2 Mobile originating calls

7.4.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

7.4.2.3.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-------------------------|----------|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION REQUEST | MM |
| 2 | → | | AUTHENTICATION RESPONSE | MM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |
| 5 | → | | SET UP | CC |
| 6 | ← | | CALL PROCEEDING | CC |

7.4.2.3.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

7.4.2.4 NAS session activation procedure for packet switched sessions (procedure P9 and P10)

7.4.2.4.1 Mobile terminating session

7.4.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

7.4.2.4.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 2 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |

| | | | |
|---|---|--------------------------------|----|
| 5 | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 6 | → | ACTIVATE PDP CONTEXT REQUEST | SM |

7.4.2.4.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

7.4.2.4.2 Mobile originating sessions

7.4.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

7.4.2.4.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 2 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |
| 5 | → | | ACTIVATE PDP CONTEXT REQUEST | SM |

7.4.2.4.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

7.4.2.4a NAS session activation procedure for packet switched sessions with active set update (procedure P9b)

7.4.2.4a.1 Mobile terminating session

7.4.2.4a.1.1 Initial conditions

System Simulator:

- 1 serving cell default parameters. 1 neighbour cell.

User Equipment:

- The UE shall be in state 6-3.
- The Test USIM shall be inserted.

7.4.2.4a.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.4a.1.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--|
| | UE | SS | | |
| 1 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 2 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 3 | | ← | SECURITY MODE COMMAND | RRC |
| 4 | | → | SECURITY MODE COMPLETE | RRC |
| 5 | | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 6 | | → | ACTIVATE PDP CONTEXT REQUEST | SM |
| 7 | | | | Set the power level of the neighbour cell to -60dBm. Any MEASUREMENT REPORT received is ignored. |
| 8 | | ← | ACTIVE SET UPDATE | RRC |
| 9 | | → | ACTIVE SET UPDATE COMPLETE | RRC |

7.4.2.4a.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 with the following exceptions.

ACTIVE SET UPDATE (Step 8)

| Information Element | Value/remark | Version |
|--|---|--------------------|
| Radio link addition information | | |
| - Primary CPICH Info | | |
| - Primary Scrambling Code | Set to the Primary Scrambling Code of neighbour cell. Refer to clause 6.1. | |
| - Downlink DPCH info for each RL | | |
| - CHOICE mode | FDD | |
| - Primary CPICH usage for channel estimation | P-CPICH can be used. | |
| - DPCH frame offset | Calculated value from cells timing information | |
| - Secondary CPICH info | Not Present | |
| - DL channelisation code | | |
| - Secondary scrambling code | 1 | |
| - Spreading factor | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | |
| - Code Number | 0 | |
| - Scrambling code change | Not Present | |
| - TPC Combination Index | 0 | |
| - SSDT Cell Identity | Not Present | R99 and Rel-4 only |
| - Close loop timing adjustment mode | Not Present | |
| - TFCI Combining Indicator | FALSE | |
| - SCCPCH information for FACH | Not Present | R99 and Rel-4 only |

7.4.2.4a.2 Mobile originating sessions

7.4.2.4a.2.1 Initial conditions

System Simulator:

- 1 serving cell default parameters. 1 neighbour cell.

User Equipment:

- The UE shall be in 6-3.
- The Test USIM shall be inserted.

7.4.2.4a.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.4a.2.3 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|--|
| | UE | SS | | |
| 1 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 2 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 3 | | ← | SECURITY MODE COMMAND | RRC |
| 4 | | → | SECURITY MODE COMPLETE | RRC |
| 5 | | → | ACTIVATE PDP CONTEXT REQUEST | SM |
| 6 | | | | Set the power level of the neighbour cell to -60dBm. Any MEASUREMENT REPORT received is ignored. |
| 7 | | ← | ACTIVE SET UPDATE | RRC |
| 8 | | → | ACTIVE SET UPDATE COMPLETE | RRC |

7.4.2.4a.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 with the following exceptions.

ACTIVE SET UPDATE (Step 7) same as ACTIVE SET UPDATE (Step 8) in clause 7.4.2.4a.1.4.

7.4.2.5 Radio access bearer establishment procedure for circuit switched calls (procedure P11 and P12)

7.4.2.5.1 Mobile terminating call

7.4.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

7.4.2.5.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.5.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|-------------------------------|
| | UE | SS | | |
| 1 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | | → | ALERTING | CC (This message is optional) |
| 4 | | → | CONNECT | CC |
| 5 | | ← | CONNECT ACKNOWLEDGE | CC |

7.4.2.5.1.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9) for the message in step 1.

7.4.2.5.2 Mobile originating calls

7.4.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

7.4.2.5.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.5.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|---------------|
| | UE | SS | | |
| 1 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | ← | | ALERTING | CC |
| 4 | ← | | CONNECT | CC |
| 5 | → | | CONNECT ACKNOWLEDGE | CC |

7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9) for the message in step 1.

7.4.2.5a Test loop activation and radio access bearer establishment procedure for circuit switched calls (procedure P7a)

7.4.2.5a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1.
- The Test USIM shall be inserted.

7.4.2.5a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.5a.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION REQUEST | MM |
| 2 | → | | AUTHENTICATION RESPONSE | MM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |
| 5 | ← | | ACTIVATE RB TEST MODE (DCCH) | TC |
| 6 | → | | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC |
| 1 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 14 | ← | | CLOSE UE TEST LOOP (DCCH) | TC UE test mode 1 RLC SDU size set as specified for the actual test case. |
| 15 | → | | CLOSE UE TEST LOOP COMPLETE (DCCH) | TC |

7.4.2.5a.4 Specific message contents

To execute procedure P7a, use the message titled "CS speech" (defined in clause 9) for the message in step 1.

7.4.2.6 Radio access bearer establishment procedure for packet switched sessions (procedure P13, P14, P25 and P26)

7.4.2.6.1 Mobile terminating session

7.4.2.6.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

7.4.2.6.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.6.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|---------------|
| | UE | SS | | |
| 1 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | ← | | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.6.1.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS". To execute procedure P26, use the RADIO BEARER SETUP message with one of the conditions A12, A13, A14, A15, A16, A19, A20, A21 or A22.

Contents of ACTIVATE PDP CONTEXT ACCEPT message: DCCH-AM (Step 3)

| Information Element | | Value/remark |
|-------------------------|------|--------------|
| WLAN offload indication | WLAN | '0010'B |

| Condition | Explanation |
|-----------|---|
| WLAN | For RAN Assisted WLAN interworking test cases |

7.4.2.6.2 Mobile originating sessions

7.4.2.6.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.

- The Test USIM shall be inserted.

7.4.2.6.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.6.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|---------------|
| | UE | SS | | |
| 1 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | ← | | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.6.2.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS". To execute procedure P26, use the RADIO BEARER SETUP message with one of the conditions A12, A13, A14, A15 or A16.

Contents of ACTIVATE PDP CONTEXT ACCEPT message: DCCH-AM (Step 3)

| Information Element | | Value/remark |
|-------------------------|------|--------------|
| WLAN offload indication | WLAN | '0010'B |

| Condition | Explanation |
|-----------|---|
| WLAN | For RAN Assisted WLAN interworking test cases |

7.4.2.6a Test loop activation and radio access bearer establishment procedure for packet switched sessions (procedure P4a and P9a)

7.4.2.6a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

7.4.2.6a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.6a.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------|
| | UE | SS | | |
| 1 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 2 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 3 | ← | | SECURITY MODE COMMAND | RRC |
| 4 | → | | SECURITY MODE COMPLETE | RRC |
| 5 | ← | | ACTIVATE RB TEST MODE (DCCH) | TC |
| 6 | → | | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC |

| | | | |
|----|---|------------------------------------|---|
| 7 | ← | RADIO BEARER SETUP | RRC RAB SETUP. The 'pdcp info' IE shall be omitted. |
| 8 | → | RADIO BEARER SETUP COMPLETE | RRC |
| 14 | ← | CLOSE UE TEST LOOP (DCCH) | TC UE test mode 1 RLC SDU size set as specified for the actual test case. |
| 15 | → | CLOSE UE TEST LOOP COMPLETE (DCCH) | TC |

7.4.2.6a.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P9a, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure 4a, use the message titled "Packet to CELL_FACH from CELL_FACH in PS" with the exception that the 'pdcp info' IE shall be omitted.

7.4.2.7 Procedure for transitions to CELL_PCH or URA_PCH state (procedure P15, P16, P17 and P18)

7.4.2.7.1 Transition to CELL_PCH (procedure P15 and P16)

7.4.2.7.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.7.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.7.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|----------|
| | UE | SS | | |
| 1 | ← | | PHYSICAL CHANNEL RECONFIGURATION | RRC |
| 2 | → | | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC |

7.4.2.7.1.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type | |
| RRC State Indicator | CELL_PCH |

7.4.2.7.2 Transition to URA_PCH (procedure P17 and P18)

7.4.2.7.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.

- The Test USIM shall be inserted.

7.4.2.7.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.7.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---|----------|
| | UE | SS | | |
| 1 | | ← | PHYSICAL CHANNEL RECONFIGURATION | RRC |
| 2 | | → | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC |

7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type | |
| RRC State Indicator | URA_PCH |

7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

7.4.2.8.1.1 Mobile terminating session

7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.8.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---------------|
| | UE | SS | | |
| 1 | | ← | PAGING TYPE2 (DCCH) | Paging |
| 2 | | → | SERVICE REQUEST | GMM |
| 3 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 4 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 5 | | ← | SECURITY MODE COMMAND | RRC |
| 6 | | → | SECURITY MODE COMPLETE | RRC |
| 7 | | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 8 | | → | ACTIVATE PDP CONTEXT REQUEST | SM |
| 9 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 10 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 11 | | ← | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.8.1.1.4 Specific message contents

FFS

7.4.2.8.1.2 Mobile originating sessions

7.4.2.8.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.8.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.8.1.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|---------------|
| | UE | SS | | |
| 1 | → | | SERVICE REQUEST | GMM |
| 2 | ← | | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 3 | → | | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 4 | ← | | SECURITY MODE COMMAND | RRC |
| 5 | → | | SECURITY MODE COMPLETE | RRC |
| 6 | → | | ACTIVATE PDP CONTEXT REQUEST | SM |
| 7 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 8 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 9 | ← | | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.8.1.2.4 Specific message contents

FFS

7.4.2.8.2 Transition to PS+PS-DCCH+DTCH DCH (procedure P20 and P21)

7.4.2.8.2.1 Mobile terminating session

7.4.2.8.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.8.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.8.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--------------------------------|---------------|
| | UE | SS | | |
| 1 | | ← | PAGING TYPE2 (DCCH) | Paging |
| 2 | | → | SERVICE REQUEST | GMM |
| 3 | | ← | SERVICE ACCEPT | GMM |
| 4 | | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 5 | | → | ACTIVATE PDP CONTEXT REQUEST | SM |
| 6 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 7 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 8 | | ← | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.8.2.1.4 Specific message contents

FFS

7.4.2.8.2.2 Mobile originating sessions

7.4.2.8.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.8.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.8.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|------------------------------|---------------|
| | UE | SS | | |
| 1 | | → | SERVICE REQUEST | GMM |
| 2 | | ← | SERVICE ACCEPT | GMM |
| 3 | | → | ACTIVATE PDP CONTEXT REQUEST | SM |
| 4 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 5 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 6 | | ← | ACTIVATE PDP CONTEXT ACCEPT | SM |

7.4.2.8.2.2.4 Specific message contents

FFS

7.4.2.8.3 Transition to PS+PS-DCCH+DTCH Idle (Procedure P27)

7.4.2.8.3.1 Mobile terminating session

7.4.2.8.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-16.
- The Test USIM shall be inserted.

7.4.2.8.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.8.3.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|--|--|
| | UE | SS | | |
| 1 | | ← | RRC CONNECTION RELEASE (DCCH) | N308=1 The UE shall enter idle state. Message is repeated 2(N308+1) times |
| 2 | | → | RRC CONNECTION RELEASE COMPLETE (DCCH) | |

7.4.2.8.3.1.4 Specific message contents

None

7.4.2.9 Radio access bearer establishment procedure with circuit switched calls for transitions to Multi Call state (procedure P22, P23 and P24)

7.4.2.9.1 Transition to CS+CS-DCCH+DTCH DCH (procedure P22)

7.4.2.9.1.1 Mobile terminating call

7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.9.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|-------------------------------|
| | UE | SS | | |
| 1 | | ← | PAGING TYPE2 (DCCH) | Paging |
| 2 | | → | PAGING RESPONSE | RR |
| 3 | | ← | SET UP | CC |
| 4 | | → | CALL CONFIRMED | CC |
| 5 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 6 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 7 | | → | ALERTING | CC (this message is optional) |
| 8 | | → | CONNECT | CC |
| 9 | | ← | CONNECT ACKNOWLEDGE | CC |

7.4.2.9.1.1.4 Specific message contents

FFS

7.4.2.9.1.2 Mobile originating calls

7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.9.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|---------------|
| | UE | SS | | |
| 1 | | → | CM SERVICE REQUEST | MM |
| 2 | | ← | CM SERVICE ACCEPT | MM |
| 3 | | → | SET UP | CC |
| 4 | | ← | CALL PROCEEDING | CC |
| 5 | | ← | RADIO BEARER SETUP | RRC RAB SETUP |
| 6 | | → | RADIO BEARER SETUP COMPLETE | RRC |
| 7 | | ← | ALERTING | CC |
| 8 | | ← | CONNECT | CC |
| 9 | | → | CONNECT ACKNOWLEDGE | CC |

7.4.2.9.1.2.4 Specific message contents

FFS

7.4.2.9.2 Transition to PS+CS-DCCH+DTCH DCH (procedure P23 and 24)

7.4.2.9.2.1 Mobile terminating call

7.4.2.9.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.9.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|------------------------|----------|
| | UE | SS | | |
| 1 | | ← | PAGING TYPE2 (DCCH) | Paging |
| 2 | | → | PAGING RESPONSE | RR |
| 3 | | ← | AUTHENTICATION REQUEST | MM |

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|-------------------------------|
| | UE | SS | | |
| 4 | → | | AUTHENTICATION RESPONSE | MM |
| 5 | ← | | SECURITY MODE COMMAND | RRC |
| 6 | → | | SECURITY MODE COMPLETE | RRC |
| 7 | ← | | SET UP | CC |
| 8 | → | | CALL CONFIRMED | CC |
| 9 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 10 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 11 | → | | ALERTING | CC (this message is optional) |
| 12 | → | | CONNECT | CC |
| 13 | ← | | CONNECT ACKNOWLEDGE | CC |

7.4.2.9.2.1.4 Specific message contents

FFS

7.4.2.9.2.2 Mobile originating calls

7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.9.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction | | Message | Comments |
|------|-----------|----|-----------------------------|---------------|
| | UE | SS | | |
| 1 | → | | CM SERVICE REQUEST | MM |
| 2 | ← | | AUTHENTICATION REQUEST | MM |
| 3 | → | | AUTHENTICATION RESPONSE | MM |
| 4 | ← | | SECURITY MODE COMMAND | RRC |
| 5 | → | | SECURITY MODE COMPLETE | RRC |
| 6 | → | | SET UP | CC |
| 7 | ← | | CALL PROCEEDING | CC |
| 8 | ← | | RADIO BEARER SETUP | RRC RAB SETUP |
| 9 | → | | RADIO BEARER SETUP COMPLETE | RRC |
| 10 | ← | | ALERTING | CC |
| 11 | ← | | CONNECT | CC |
| 12 | → | | CONNECT ACKNOWLEDGE | CC |

7.4.2.9.2.2.4 Specific message contents

FFS

7.5 Test procedures for A-GPS and A-GNSS Performance requirements testing

This clause specifies the procedures that shall be used for testing of A-GPS and A-GNSS Performance requirements in TS 37.571-1 [47] clauses 5 and 6.

7.5.1 Normal UE based A-GPS procedure

The procedure in this clause shall be used for all UE-based A-GPS TTF test cases in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 5.

7.5.1.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.1.2 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|-------|---|---|
| | UE | SS | | |
| 1 | | ← | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | | ← | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model Satellites 1, 2, 3, 4, 5 (1)) |
| 3 | | ← | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9 (1), Iono Model) |
| 4 | | ← | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), ReferencePosition (1)) |
| 5 | | → | RRC MEASUREMENT REPORT | RRC (Position Estimate), 1 st test instance |
| 6 | | ← | RESET UE POSITIONING STORED INFORMATION | TC |
| 7 | | ← | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model Satellites 1, 2, 3, 4, 5 (2)) |
| 8 | | ← | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9 (2), Iono Model) |
| 9 | | ← | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (2), ReferencePosition (2)) |
| 10 | | → | RRC MEASUREMENT REPORT | RRC (Position Estimate), 2 nd test instance |
| 11 | | ← | RESET UE POSITIONING STORED INFORMATION | TC |
| | | | | |
| n | | → | RRC MEASUREMENT REPORT | RRC (Position Estimate), n th test instance |

7.5.1.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGPS |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)*5):

| Information element | Value/remark | Version |
|---|---|----------------------------------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Setup | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model | UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present Satellites 1-5 as specified in TS 37.571-5 [48] clause 5.2 | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT CONTROL (Steps 3 + (n-1)*5):

| Information element | Value/remark | Version |
|--|--|--------------------------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model - UE positioning GPS ionospheric model | UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present Satellites 6-9 as specified in TS 37.571-5 [48] clause 5.2 As specified in TS 37.571-5 [48] clause 5.2 | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT CONTROL (Steps 4 + (n-1)*5):

| Information element | Value/remark | Version |
|--|--|--|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time - UE positioning GPS reference UE position | UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in TS 37.571-5 [48] clause 5.2 As specified in TS 37.571-5 [48] clause 5.2 | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

7.5.2 UE based A-GPS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-based A-GPS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 5.

7.5.2.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.2.2 Procedure

| Step | Direction | | Message | Comments |
|-------|-----------|----|---|---|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model Satellites 1, 2, 3, 4, 5) |
| 3 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9, Iono Model) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time, ReferencePosition) |
| 5 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| | → | | | |

| | | | |
|---|---|------------------------|-------------------------|
| n | → | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| NOTE: In the actual testing the UE may report error messages at step 5 until it has been able to acquire a position estimate. | | | |

7.5.2.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 3 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1.

The contents of the Measurement Control message in step 4 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1 with the following exceptions:

| Information Element | Value/remark |
|---|---------------------|
| Amount of reporting | Infinite (see note) |
| Reporting interval | 2 000 ms |
| NOTE: Infinite means during the complete test time. | |

7.5.3 Void

7.5.4 Normal UE assisted GPS procedure

The procedure in this clause shall be used for all UE-assisted A-GPS TTFF test cases in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 5.

7.5.4.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.4.2 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting Criteria, GPS Ref time) |
| 3 | → | | RRC MEASUREMENT REPORT | RRC (Additional Assistance Data Request) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criteria) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), 1 st test instance |
| 7 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 8 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting Criteria, GPS Ref time) |
| 9 | → | | RRC MEASUREMENT REPORT | RRC (Additional Assistance Data Request) |
| 10 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 11 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criteria) |
| 12 | → | | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), 2 nd test instance |

| Step | Direction | | Message | Comments |
|------|-----------|-------|---|---|
| | UE | SS | | |
| 13 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| | | | | |
| n | | → | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), n th test instance |

7.5.4.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGPS |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)*6):

| Information element | Value/remark | Version |
|---|--|--|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Setup | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time | UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE TRUE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in TS 37.571-5 [48] clause 5.2 | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT REPORT (Steps 3 + (n-1)*6):

| Information element | Value/remark | Version |
|--|---|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measured Results <ul style="list-style-type: none"> - CHOICE <i>Measurement</i> - UE positioning measured results <ul style="list-style-type: none"> - UE positioning OTDOA measured results - UE positioning position estimate info - UE positioning GPS measured results - UE positioning error <ul style="list-style-type: none"> - Error reason - GPS additional assistance data request | Not present Not present Not present Assistance Data Missing Defines assistance data requested by the UE | |
| Measured Results on RACH | Not present | |
| Additional Measured Results | Not present | |
| Event Results | Not present | |

MEASUREMENT CONTROL (Steps 4 + (n-1)*6):

| Information element | Value/remark | Version |
|--|---|--------------------------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode <ul style="list-style-type: none"> - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> - UE positioning measurement <ul style="list-style-type: none"> - UE positioning reporting quantity <ul style="list-style-type: none"> - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity <ul style="list-style-type: none"> - UE state - CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data | UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present As specified in TS 37.571-5 [48] clause 5.2 and requested by the UE in Step 3+(n-1)*6 | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT CONTROL (Steps 5 + (n-1)*6):

| Information element | Value/remark | Version |
|--|--|--|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data | UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present Not present | R99 only R99 only |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

7.5.5 UE assisted A-GPS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-assisted A-GPS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 5.

7.5.5.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.5.2 Procedure

| Step | Direction | | Message | Comments |
|-------|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting Criteria, GPS Ref time) |
| 3 | → | | RRC MEASUREMENT REPORT | RRC (Additional Assistance Data Request) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criteria) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), 1 st test instance |
| 7 | → | | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), 2 nd test instance |
| | → | | | |
| n | → | | RRC MEASUREMENT REPORT | RRC (GPS Measured Results), n th test instance |

NOTE: In the actual testing the UE may report error messages at step 6 until it has been able to acquire GPS measured results.

7.5.5.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 4 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4.

The contents of the Measurement Control message in step 5 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4 with the following exceptions:

| Information Element | Value/remark |
|---|---------------------|
| Amount of reporting | Infinite (see note) |
| Reporting interval | 2 000 ms |
| NOTE: Infinite means during the complete test time. | |

7.5.6 Normal UE based A-GNSS procedure

The procedure in this clause shall be used for all UE-based A-GNSS TTFF test cases in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 6.

7.5.6.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.6.2 Procedure

| Step | Direction | | Message | Comments |
|-------|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5 (1), Nav model GANSS Satellites 1, 2, 3, 4, 5 (1), Aux Info GANSS Satellites 1, 2, 3, 4, 5 (1)) |
| 3 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9 (1), Iono Model, Nav model GANSS Satellites 6,7,8 (1), Aux Info GANSS Satellites 6,7,8 (1)) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), GPS Ref location (1), GPS UTC Model(1), GANSS Time Model (1)) |
| 5 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate), 1 st test Instance |
| 6 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 7 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5 (2), Nav model GANSS Satellites 1, 2, 3, 4, 5 (2), Aux Info GANSS Satellites 1, 2, 3, 4, 5 (2)) |
| 8 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9 (2), Iono Model, Nav model GANSS Satellites 6,7,8 (2), Aux Info GANSS Satellites 6,7,8 (2)) |
| 9 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), GPS Ref location (2), GPS UTC Model(1), GANSS Time Model (2)) |
| 10 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate), 2 nd test Instance |
| 11 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| | → | | | |
| n | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate), n th test Instance |

7.5.6.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGNSS |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)*5):

| Information element | Value/remark | Version |
|---|---|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Setup | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - GANSSPositioningMethods - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model - UE positioning GANSS assistance data - GanssGenericDataList - UE positioning GANSS add navigation models - UE positioning GANSS AuxiliaryInfo | UE positioning measurement UE based GPS 19 (51 m) 48 (102 m) FALSE FALSE Not present Bitmap as per supported GNSS All states Not present Not present GPS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2 GANSS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2 GANSS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT CONTROL (Steps 3 + (n-1)*5):

| Information element | Value/remark | Version |
|---|--|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - GANSSPositioningMethods - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model - UE positioning GPS ionospheric model - UE positioning GANSS assistance data - GanssGenericDataList - UE positioning GANSS add navigation models - UE positioning GANSS AuxiliaryInfo | UE positioning measurement UE based GPS 19 (51 m) 48 (102 m) FALSE FALSE Not present Bitmap as per supported GNSS All states Not present Not present GPS Satellites 6-9 as specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 GANSS Satellites 6-8 as specified in TS 37.571-5 [48] clause 6.2 GANSS Satellites 6-8 as specified in TS 37.571-5 [48] clause 6.2 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT CONTROL (Steps 4 + (n-1)*5):

| Information element | Value/remark | Version |
|---|--|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time - UE positioning GPS reference UE position - UE positioning GPS UTC model - UE positioning GANSS assistance data -GanssGenericDataList - GANSS Time model list | UE positioning measurement UE based GPS 19 (51 m) 48 (102 m) FALSE FALSE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

7.5.7 UE based A-GNSS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-based A-GNSS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 6.

7.5.7.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.7.2 Procedure

| Step | Direction | | Message | Comments |
|--|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5, Nav model GANSS Satellites 1, 2, 3, 4, 5, Aux Info GANSS Satellites 1, 2, 3, 4, 5) |
| 3 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9, Iono Model, Nav model GANSS Satellites 6,7,8, Aux Info GANSS Satellites 6,7,8) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, Periodical Reporting Criterion, GPS Ref time, GPS Ref location, GPS UTC Model, GANSS Time Model) |
| 5 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| | → | | | |
| n | → | | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| NOTE: In the actual testing the UE may report error messages at step 5 until it has been able to acquire GPS measured results. | | | | |

7.5.7.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 3 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6.

The contents of the Measurement Control message in step 4 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6 with the following exceptions:

| Information Element | Value/remark |
|---|---------------------|
| Amount of reporting | Infinite (see note) |
| Reporting interval | 2 000 ms |
| NOTE: Infinite means during the complete test time. | |

7.5.8 Normal UE assisted A-GNSS procedure

The procedure in this clause shall be used for all UE-assisted A-GNSS TTFF test cases in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 6.

7.5.8.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.8.2 Procedure

| Step | Direction | | Message | Comments |
|-------|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model) |
| 3 | → | | RRC MEASUREMENT REPORT | RRC (Additional Assistance Data Request) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8 Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), 1 st test Instance |
| 7 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 8 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model) |
| 9 | → | | RRC MEASUREMENT REPORT | RRC (Additional Assistance Data Request) |
| 10 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 11 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8 Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 12 | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), 2 nd test Instance |
| 13 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| | → | | | |
| n | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), n th test Instance |

7.5.8.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGNSS |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)*6):

| Information element | Value/remark | Version |
|--|--|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Setup | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - GANSSPositioningMethods - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time - UE positioning GPS UTC model - UE positioning GANSS assistance data -GanssGenericDataList - GANSS Time model list | UE positioning measurement UE assisted GPS 19 (51 m) 48 (102 m) FALSE TRUE Not present Bitmap as per supported GNSS All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

MEASUREMENT REPORT (Steps 3 + (n-1)*6):

| Information element | Value/remark | Version |
|---|--|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measured Results - CHOICE <i>Measurement</i> - UE positioning measured results - UE positioning OTDOA measured results - UE positioning position estimate info - UE positioning GPS measured results - UE positioning error - Error reason - GPS additional assistance data request | Not present Not present Not present Assistance Data Missing Defines assistance data requested by the UE | |
| Measured Results on RACH | Not present | |
| Additional Measured Results | Not present | |
| Event Results | Not present | |

MEASUREMENT CONTROL (Steps 4 + (n-1)*6):

| Information element | Value/remark | Version |
|--|---|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - GANSSPositioningMethods - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data | UE positioning measurement UE assisted GPS 19 (51 m) 48 (102 m) FALSE FALSE Not present Bitmap as per supported GNSS All states Not present Not present As specified in TS 37.571-5 [48] clause 6.2 and requested by the UE in Step 3+(n-1)*6 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |
| | | |
| | | |

MEASUREMENT CONTROL (Steps 5 + (n-1)*6):

| Information element | Value/remark | Version |
|---|---|---------|
| Measurement Information Elements | | |
| Measurement Identity | 10 | |
| Measurement Command | Modify | |
| Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode | Acknowledged mode RLC Periodical reporting | |
| Additional Measurements List | Not present | |
| CHOICE <i>Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Additional assistance data request - Environmental characterization - GANSSPositioningMethods - Measurement validity - UE state - CHOICE <i>Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GANSS assistance data -GanssGenericDataList - GANSS Time model list - UE positioning GANSS reference position info - UE positioning GANSS AuxiliaryInfo | UE positioning measurement UE assisted GPS 19 (51 m) 48 (102 m) FALSE FALSE Not present Bitmap as per supported GNSS All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in TS 37.571-5 [48] clause 6.2 As specified in TS 37.571-5 [48] clause 6.2 | |
| Physical Channel Information Elements | | |
| DPCH compressed mode status info | Not present | |

7.5.9 UE assisted A-GNSS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-assisted A-GNSS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 37.571-1 [47] clause 6.

7.5.9.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

7.5.9.2 Procedure

| Step | Direction | | Message | Comments |
|------|-----------|----|---|--|
| | UE | SS | | |
| 1 | ← | | RESET UE POSITIONING STORED INFORMATION | TC |
| 2 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model) |
| 3 | → | | RRC MEASUREMENT CONTROL | RRC (Additional Assistance Data Request) |
| 4 | ← | | RRC MEASUREMENT CONTROL | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5 | ← | | RRC MEASUREMENT CONTROL | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8, Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 6 | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), 1 st test Instance |
| 7 | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), 2 nd test Instance |
| ... | → | | ... | |
| n | → | | RRC MEASUREMENT REPORT | RRC (GNSS Measured Results), n th test Instance |

NOTE: In the actual testing the UE may report error messages at step 6 until it has been able to acquire GPS measured results.

7.5.9.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 4 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8.

The contents of the Measurement Control message in step 5 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8 with the following exceptions:

| Information Element | Value/remark |
|---|---------------------|
| Amount of reporting | Infinite (see note) |
| Reporting interval | 2 000 ms |
| NOTE: Infinite means during the complete test time. | |

7.6 Test procedures for MBMS testing

This clause specifies the procedures that shall be used for MBMS testing.

7.6.1 GMM-REGISTERED with 1 MBMS Service Activated

7.6.1.1 Initial conditions

User Equipment:

For MBMS broadcast test cases:

- The UE is in registered Idle Mode on PS state (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domain. The UE states are specified in clause 7.4. For MBMS multicast test cases:

- The UE is in CELL_DCH (6-10 PS-DCCH+DTCH_DCH) or CELL_FACH (6-11 PS-DCCH+DTCH_FACH) state after executing the procedure P13 or P14 defined in clause 7.4.2.6.

For MBMS broadcast and multicast test cases:

- Subsequent to the broadcasting of System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 and Default1 MCCH scheduling (No ongoing service). See subclause 11.1.
- For MBMS the RRC messages used throughout the generic setup procedures make use of specific parameter settings as specified in clause 9.1.

7.6.1.2 Procedure

For MBMS broadcast test cases:

- The SS request the UE to activate the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been activated in the UE
- The SS change UE state to CELL_DCH (6-10 PS-DCCH+DTCH_DCH) or CELL_FACH (6-11 PS-DCCH+DTCH_FACH) state by executing the procedure P13 or P14 defined in clause 7.4.2.6 except for the reception of MBMS MODIFICATION REQUEST message after RRC CONNECTION SETUP COMPLETE message during P5 or P6 procedure in case of MBMS Selected Service.

Specific Message Content for MBMS MODIFICATION REQUEST:

MBMS MODIFICATION REQUEST

| Information Element | Value/remark |
|---------------------------------------|--|
| MBMS preferred frequency request | Check that the IE is not present |
| MBMS RB list requested to be released | Check that the IE is not present |
| MBMS Selected Service Info | Some |
| - CHOICE Status | |
| - MBMS Selected Services Full | MBMS service ID of the activated MBMS service |
| - MBMS Selected Service ID | |
| - MBMS Service ID | |
| - CHOICE PLMN identity | |
| - SameAs-MIB | Check to see that one of the below choice element is present (no data) |
| - explicitPLMN_Id | Check to see if it is set to the same value as "PLMN ID" in the Master Information block transmitted for the current serving cell. |

For MBMS multicast test cases:

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------------------------------|
| | UE | SS | | |
| 1 | | | | Make UE join a multicast service |
| 2 | | → | IGMP/MLD JOIN | IGMP/MLD |
| 3 | | ← | REQUEST MBMS CONTEXT ACTIVATION | SM |
| 4 | | → | ACTIVATE MBMS CONTEXT REQUEST | SM |
| 5 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 6 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 7 | | ← | ACTIVATE MBMS CONTEXT ACCEPT | SM |

If required, transition from CELL_FACH (6-11) to CELL_PCH (6-12) or URA_PCH (6-13) state using the procedures P15 or P17 respectively will be performed.

7.6.1.3 Specific message contents

All specific message contents shall be referred to clause 9 with the following exceptions:

PHYSICAL CHANNEL RECONFIGURATION (procedures 6-12 and 6-13)

| Information Element | Value/remark |
|------------------------------------|--------------|
| UTRAN DRX cycle length coefficient | 7 |

Attach Accept message: GMM

| Information Element | Value/remark |
|-----------------------|----------------|
| NetworkFeatureSupport | MBMS supported |

Service Request message: GMM

| Information Element | Value/remark |
|---------------------|------------------------|
| ServiceType | MBMS Service Reception |

REQUEST MBMS CONTEXT ACTIVATION

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Linked NSAPI | 5 |
| Offered Multicast address | Present |
| Access point name | Present |
| MBMS protocol configuration options | Not present |

ACTIVATE MBMS CONTEXT REQUEST

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Requested MBMS NSAPI | 128 |
| Requested LLC SAPI | Present |
| Supported MBMS bearer capabilities | Present |
| Requested Multicast address | Present |
| Access point name | Present |
| MBMS protocol configuration options | Not present |

ACTIVATE MBMS CONTEXT ACCEPT

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Temporary Mobile Group Identity | |
| - MBMS Service Id | Present |
| - MCC | Present |
| - MNC | Present |
| Negotiated LLC SAPI | Present |
| MBMS protocol configuration options | Not present |

IPv4_Datagram

| Information Element | Value/remark |
|---------------------|---|
| Version | 0x4 |
| HeaderLength | Present |
| TypeOfService | Present |
| TotalLength | Present |
| Identification | Present |
| ReservedFlag | Present |
| MoreFragments | Present |
| FragmentationOffset | Present |
| TimeToLive | Present |
| Protocol | Present |
| HeaderChecksum | Present |
| SourceAddress | Present |
| DestinationAddress | Present |
| OptionsList | Router alert option with value 0 (0x94040000) |

| | |
|------|----------|
| Data | IGMP PDU |
|------|----------|

IGMP/JOIN (IPv4)

| Information Element | Value/remark |
|---------------------|------------------------------------|
| Type | 0x16 (Version 2 Membership Report) |
| Max Resp Time | Present |
| Checksum | Present |
| Group Address | Multicast IP address |

IGMP/Leave (IPv4)

| Information Element | Value/remark |
|---------------------|------------------------------------|
| Type | 0x17 (Version 2 Membership Report) |
| Max Resp Time | Present |
| Checksum | Present |
| Group Address | Multicast IP address |

IPv6_Datagram

| Information Element | Value/remark |
|---------------------|---|
| Version | 0x6 |
| TrafficClass | Present |
| FlowLabel | Present |
| PayloadLength | Present |
| NextHeader | Present |
| HopLimit | Present |
| SourceAddress | Present |
| DestinationAddress | Present |
| ExtensionHeaders | Router alert option with value 0 (0x05020000) |
| Data | MLD PDU |

MLD/JOIN (IPv6)

| Information Element | Value/remark |
|----------------------|----------------------|
| Type | 0x83 |
| Code | Present |
| Checksum | Present |
| MaximumResponseDelay | Present |
| Reserved | Present |
| Group Address | Multicast IP address |

MLD/LEAVE (IPv6)

| Information Element | Value/remark |
|----------------------|----------------------|
| Type | 0x84 |
| Code | Present |
| Checksum | Present |
| MaximumResponseDelay | Present |
| Reserved | Present |
| Group Address | Multicast IP address |

7.6.2 IDLE with 1 MBMS Service Activated

7.6.2.1 Initial conditions

User Equipment:

For MBMS broadcast test cases:

- The UE is in registered Idle Mode on PS state (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domain. The UE states are specified in clause 7.4.

For MBMS multicast test cases:

- The UE is in CELL_FACH (6-11 PS-DCCH+DTCH_FACH) state after executing the procedure P14 defined in clause 7.4.2.6.

For MBMS broadcast and multicast test cases:

- Subsequent to the broadcasting of System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 (No ongoing service) and Default1 MCCH scheduling. See subclause 11.1.
- For MBMS the RRC messages used throughout the generic setup procedures make use of specific parameter settings as specified in clause 9.1.

7.6.2.2 Procedure

For MBMS broadcast test cases:

- The SS request the UE to active the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been activated in the UE

For MBMS multicast test cases:

| Step | Direction | | Message | Comments |
|------|-----------|----|---------------------------------------|----------------------------------|
| | UE | SS | | |
| 1 | | | | Make UE join a multicast service |
| 2 | | → | IGMP/MLD JOIN | IGMP/MLD |
| 3 | | ← | REQUEST MBMS CONTEXT ACTIVATION | SM |
| 4 | | → | ACTIVATE MBMS CONTEXT REQUEST | SM |
| 5 | | ← | AUTHENTICATION AND CIPHERING REQUEST | GMM |
| 6 | | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM |
| 7 | | ← | ACTIVATE MBMS CONTEXT ACCEPT | SM |
| 8 | | ← | RRC CONNECTION RELEASE | RRC |
| 9 | | → | RRC CONNECTION RELEASE COMPLETE | RRC |

7.6.2.3 Specific message contents

All specific message contents shall be referred to clause 9 with the following exceptions:

Attach Accept message: GMM

| Information Element | Value/remark |
|-----------------------|----------------|
| NetworkFeatureSupport | MBMS supported |

Service Request message: GMM

| Information Element | Value/remark |
|---------------------|------------------------|
| ServiceType | MBMS Service Reception |

REQUEST MBMS CONTEXT ACTIVATION

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Linked NSAPI | 5 |
| Offered Multicast address | Present |
| Access point name | Present |
| MBMS protocol configuration options | Not present |

ACTIVATE MBMS CONTEXT REQUEST

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Requested MBMS NSAPI | 128 |
| Requested LLC SAPI | Present |
| Supported MBMS bearer capabilities | Present |
| Requested Multicast address | Present |
| Access point name | Present |
| MBMS protocol configuration options | Not present |

ACTIVATE MBMS CONTEXT ACCEPT

| Information Element | Value/remark |
|-------------------------------------|--------------|
| Temporary Mobile Group Identity | |
| - MBMS Service Id | Present |
| - MCC | Present |
| - MNC | Present |
| Negotiated LLC SAPI | Present |
| MBMS protocol configuration options | Not present |

IPv4_Datagram

| Information Element | Value/remark |
|---------------------|---|
| Version | 0x4 |
| HeaderLength | Present |
| TypeOfService | Present |
| TotalLength | Present |
| Identification | Present |
| ReservedFlag | Present |
| MoreFragments | Present |
| FragmentationOffset | Present |
| TimeToLive | Present |
| Protocol | Present |
| HeaderChecksum | Present |
| SourceAddress | Present |
| DestinationAddress | Present |
| OptionsList | Router alert option with value 0 (0x94040000) |
| Data | IGMP PDU |

IGMP/JOIN (IPv4)

| Information Element | Value/remark |
|---------------------|------------------------------------|
| Type | 0x16 (Version 2 Membership Report) |
| Max Resp Time | Present |
| Checksum | Present |
| Group Address | Multicast IP address |

IGMP/Leave (IPv4)

| Information Element | Value/remark |
|---------------------|------------------------------------|
| Type | 0x17 (Version 2 Membership Report) |
| Max Resp Time | Present |
| Checksum | Present |
| Group Address | Multicast IP address |

IPv6_Datagram

| Information Element | Value/remark |
|---------------------|--------------|
| Version | 0x6 |
| TrafficClass | Present |
| FlowLabel | Present |

| | |
|--------------------|---|
| PayloadLength | Present |
| NextHeader | Present |
| HopLimit | Present |
| SourceAddress | Present |
| DestinationAddress | Present |
| ExtensionHeaders | Router alert option with value 0 (0x05020000) |
| Data | MLD PDU |

MLD/JOIN (IPv6)

| Information Element | Value/remark |
|----------------------|----------------------|
| Type | 0x83 |
| Code | Present |
| Checksum | Present |
| MaximumResponseDelay | Present |
| Reserved | Present |
| Group Address | Multicast IP address |

MLD/LEAVE (IPv6)

| Information Element | Value/remark |
|----------------------|----------------------|
| Type | 0x84 |
| Code | Present |
| Checksum | Present |
| MaximumResponseDelay | Present |
| Reserved | Present |
| Group Address | Multicast IP address |

7.6.3 MBSFN IDLE

7.6.3.1 Initial conditions

System Simulator:

- 1 MBMS MBSFN Cell 31 with default parameters.

In addition to broadcasting System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 and Default1 MCCH scheduling (No ongoing service). See subclause 11.1.

- 1 unicast carrier Cell 1 with default parameters.

User Equipment:

- The UE is in MBSFN Idle mode with one service activated on the MBSFN cell as specified in subclause 7.6.4.
- On the unicast carrier cell the UE is in registered Idle Mode on PS (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domains. See subclause 7.6.4. The UE states are specified in subclause 7.4.

7.6.3.2 Procedure

- The SS requests the UE to de-activate the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been de-activated in the UE

Expected Sequence:

| Step | Direction | | Carrier | Message | Comment |
|------|-----------|----|---------|------------------------------------|--|
| | UE | SS | | | |
| 1 | | ← | M | SYSTEM INFORMATION (BCCH) | |
| 2 | | ← | M | MBMS MCCH Message Configuration C1 | MBMS configuration C1 and Default1 MCCH scheduling. No session ongoing. |
| 3 | | SS | | | SS requests the UE to de-activate the required MBMS broadcast service |
| 4 | | SS | | | SS waits until the MBMS broadcast service has been de-activated in the UE. |

7.6.3.3 Specific message contents

All message contents shall be as specified in clause 9.1.

7.6.4 MBSFN IDLE with 1 MBMS Service Activated

7.6.4.1 Initial conditions

System Simulator:

- 1 MBMS MBSFN Cell 31 with default parameters.

In addition to broadcasting System Information, MCCH messages are transmitted by the SS using MBMS configuration C2 and Default1 MCCH scheduling (No modified services. One ongoing service corresponding to that to be activated at the UE. 124 kbps PS RAB). See subclause 11.1.

- 1 unicast carrier Cell 1 with default parameters.

User Equipment:

- The UE is switched off.
- The Test-USIM shall be inserted.
- The UE shall be operated under normal test conditions.

7.6.4.2 Procedure

- The UE shall be switched on and the unicast carrier mobile termination shall be activated.
- The UE registers on the unicast carrier Cell 1. The UE registers on PS, as specified in clause 7.2.2.2 of TS 34.108 (state 3) if the UE only supports PS domain or registers on CS/PS, as specified in clause 7.2.2.3 of TS 34.108. (state 7) if the UE supports both CS and PS domains.
- The SS sends ACTIVATE RB TEST MODE on the unicast carrier cell. The UE acknowledges by sending ACTIVATE RB TEST MODE COMPLETE.
- The MBMS MBSFN mobile termination shall be activated. (See Note 1)
- The SS sends CLOSE UE TEST LOOP via the unicast carrier cell, requesting activation of Test Loop Mode 3 specifying the MBSFN MBMS short transmission identity of the MTCH for the activated service (on Cell 31).
- The SS requests the UE to activate the requested MBMS broadcast service.
- The UE performs an MBSFN cell search, reads System Information and camps on Cell 31.
- The UE reads the MCCH messages transmitted by the SS in accordance with Combination C2 and with Default1 MCCH information scheduling. See subclause 11.1. The UE shall continue acquiring the above MBMS messages until it has received a consistent set of MCCH information in the same modification period.

- i) The UE shall establish the p-t-m radio bearer for the ongoing activated MBMS service indicated in the MBMS UNMODIFIED SERVICES INFORMATION message according to the configuration defined in the MBMS CURRENT CELL P-T-M INFORMATION (one ongoing session corresponding to the service activated at the UE. The UE closes the test loop and starts counting successfully received RLC PDUs on the MTCH. The UE will send CLOST UE TEST LOOP COMPLETE.
- j) The Test Loop is opened and RB Test Mode is deactivated.

Expected Sequence:

| Step | Direction | | Carrier | Message | Comment |
|------|-----------|----|---------|------------------------------------|---|
| | UE | SS | | | |
| 1 | UE | | U | | UE switched on and unicast carrier mobile termination is activated. |
| 2 | | | U | | UE registers on Unicast carrier Cell 1. |
| 3 | ← | | U | ACTIVATE RB TEST MODE | |
| 4 | → | | U | ACTIVATE RB TEST MODE COMPLETE | |
| 5 | UE | | | | MBMS MBSFN mobile termination is activated. UE starts MBSFN cell search. Note 1. |
| 6 | ← | | U | CLOSE UE TEST LOOP | Loop back mode 3 on MTCH on Cell 31 is requested. |
| 7 | SS | | | | SS requests the UE to activate the required MBMS broadcast service |
| 8 | ← | | M | SYSTEM INFORMATION (BCCH) | |
| 9 | ← | | M | MBMS MCCH Message Configuration C2 | No modified services. One ongoing service corresponding to that activated at the UE. 124 kbps PS RAB |
| 10 | UE | | M | | The UE shall continue acquiring the above MBMS messages until it has received a consistent set of MCCH information in the same modification period. |
| 11 | → | | M | CLOSE UE TEST LOOP COMPLETE | The UE shall establish the indicated p-t-m radio bearer and close the test loop. |
| 12 | ← | | U | OPEN UE TEST LOOP | |
| 13 | → | | U | OPEN UE TEST LOOP COMPLETE | |
| 14 | ← | | U | DEACTIVATE RB TEST MODE | |
| 15 | → | | U | DEACTIVATE RB TEST MODE COMPLETE | |

Note 1: If possible, activation of the MBMS Mobile Termination shall be delayed until registration on the unicast carrier is complete.

7.6.4.3 Specific message contents

All message contents shall be as specified in clause 9.1.

8 Test USIM Parameters

8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS 31.120 [39] and 3GPP TS 31.121 [40].

8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in 3GPP TS 31.101 [22] and 3GPP TS 31.102 [23].

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in 3GPP TS 33.102 [24] and 3GPP TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for re-synchronization requests is needed. The definition of the test algorithm are the functions f_1 , f_2 , f_3 , f_4 , f_5 and the corresponding functions for re-synchronization are f_1^* and f_5^* .

For test USIM intended to be used for inter-RAT or GERAN-only test cases then the test USIM shall support the conversion functions c_2 and c_3 according to 3GPP TS 33.102 [24], clause 6.8.1.2 to derive the GSM SRES and ciphering key K_c from the UMTS XRES and cipher/integrity keys CK and IK .

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f_1 , f_2 , f_3 , f_4 and f_5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK , IK , K_c and AK respectively, to be used in the authentication and key agreement procedure.

Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see clause 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

$$\mathbf{XDOUT}[\text{bits } 0,1, \dots 126,127] = \mathbf{K} [\text{bits } 0,1, \dots 126,127] \text{ XOR } \mathbf{RAND}[\text{bits } 0,1, \dots 126,127]$$

Step 2:

RES (test USIM), **XRES** (SS), **CK**, **IK** and **AK** are extracted from **XDOUT** this way:

$$\mathbf{RES}[\text{bits } 0,1, \dots n-1,n] = \mathbf{f}_2(\mathbf{XDOUT},n) = \mathbf{XDOUT}[\text{bits } 0,1, \dots n-1,n] \quad (\text{with } 30 < n < 128)$$

NOTE: Suggested length for RES is 128 bits (i.e. $n = 127$).

In SS and AUC, the XRES calculation is identical to RES.

$$\mathbf{CK}[\text{bits } 0,1, \dots 126,127] = \mathbf{f}_3(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 8,9, \dots 126,127,0,1, \dots 6,7]$$

$$\mathbf{IK}[\text{bits } 0,1, \dots 126,127] = \mathbf{f}_4(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 16,17, \dots 126,127,0,1, \dots 14,15]$$

$$\mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{f}_5(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 24,25, \dots 70,71]$$

For test USIM intended for inter-RAT testing the GSM ciphering key K_c shall be derived from the UMTS cipher/integrity keys:

$$\mathbf{K}_c[\text{bits } 0,1, \dots 62,63] = \mathbf{c}_3(\mathbf{CK},\mathbf{IK}), \text{ see 3GPP TS 33.102 [24], clause 6.8.1.2.}$$

Step 3:

Concatenate **SQN** with **AMF** to obtain **CDOUT** like this:

$$\mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63] = \mathbf{SQN}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}[\text{bits } 0,1, \dots 14,15]$$

NOTE: For test USIM the $\mathbf{SQN} = \mathbf{SQN}_{\text{MS}} = \mathbf{SQN}_{\text{SS}}[\text{bits } 0,1, \dots 46,47] = \mathbf{AUTN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$ where AUTN is the received authentication token.

Step 4:

XMAC (test USIM) and **MAC** (SS) are calculated from **XDOUT** and **CDOUT** this way:

$$\mathbf{XMAC}[\text{bits } 0,1, \dots 62, 63] = \mathbf{f1}(\mathbf{XDOUT}, \mathbf{CDOUT}) = \mathbf{XDOUT}[\text{bits } 0,1, \dots 62,63] \text{ XOR } \mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63]$$

NOTE: In SS and AUC, the MAC calculation is identical to XMAC.

Step 5:

The SS calculates the authentication token **AUTN**:

$$\mathbf{AUTN}[\text{bits } 0,1, \dots 126,127] = \mathbf{SQN} \oplus \mathbf{AK}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}[\text{bits } 0,1, \dots 14,15] \parallel \mathbf{MAC}[\text{bits } 0,1, \dots 62, 63]$$

$$\text{Where } \mathbf{SQN} \oplus \mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{SQN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$$

8.1.2.2 Generation of re-synchronization parameters in the USIM

For SS to be able to initiate an authentication re-synchronization procedure a specific AMF value has been defined.

$$\mathbf{AMF}_{\text{RESYNCH}} = \mathbf{AMF}[\text{bits } 0,1, \dots 14,15] = "1111 1111 1111 1111"$$

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the $\mathbf{AMF}_{\text{RESYNCH}}$ value then the test USIM shall initiate the re-synchronization procedure.

When the test USIM starts the re-synchronization procedure, the MAC-S and AK have to be calculated using the functions $f1^*$ and $f5^*$, which in the test algorithm are identical to $f1$ and $f5$, respectively.

Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

$$\mathbf{XDOUT}[\text{bits } 0,1, \dots 126,127] = \mathbf{K}[\text{bits } 0,1, \dots 126,127] \text{ XOR } \mathbf{RAND}[\text{bits } 0,1, \dots 126,127]$$

Step 2:

AK is extracted from **XDOUT** this way:

$$\mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{f5}^*(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 24,25, \dots 70,71]$$

Step 3:

Concatenate \mathbf{SQN}_{MS} with \mathbf{AMF}^* to obtain **CDOUT** like this:

$$\mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63] = \mathbf{SQN}_{\text{MS}}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}^*[\text{bits } 0,1, \dots 14,15]$$

Where \mathbf{AMF}^* assumes a dummy value of all zeros.

NOTE 1: For test USIM the $\mathbf{SQN}_{\text{MS}} = \mathbf{SQN}_{\text{SS}}[\text{bits } 0,1, \dots 46,47] = \mathbf{AUTN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$ where AUTN is the received authentication token.

NOTE 2: For SS and AUC the $\mathbf{SQN}_{\text{MS}} = \mathbf{AUTS}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$ where AUTS is the received re-synchronization parameter.

Step 4:

MAC-S is calculated from **XDOUT** and **CDOUT** this way:

$$\text{MAC-S}[\text{bits } 0,1, \dots 62, 63] = \mathbf{f1}*(\mathbf{XDOUT}, \mathbf{CDOUT}) = \mathbf{XDOUT}[\text{bits } 0,1, \dots 62,63] \text{ XOR } \mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63]$$

NOTE: In SS and AUC, the XMAC-S calculation is identical to MAC-S.

Step 5:

The test USIM calculates the re-synchronization parameter **AUTS**:

$$\text{AUTS}[\text{bits } 0,1, \dots 110,111] = \text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1, \dots 46,47] \parallel \text{MAC-S}[\text{bits } 0,1, \dots 62, 63]$$

Where $\text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1, \dots 46,47] = \text{SQN}_{\text{MS}} [\text{bits } 0,1, \dots 46,47] \text{ XOR } \text{AK}[\text{bits } 0,1, \dots 46,47]$

8.1.2.3 Using the authentication test algorithm for UE conformance testing

8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figures 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value different from the AMF_{RESYNCH} value.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to step 4). The test USIM extracts the SQN_{MS} = SQN_{SS}, AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.

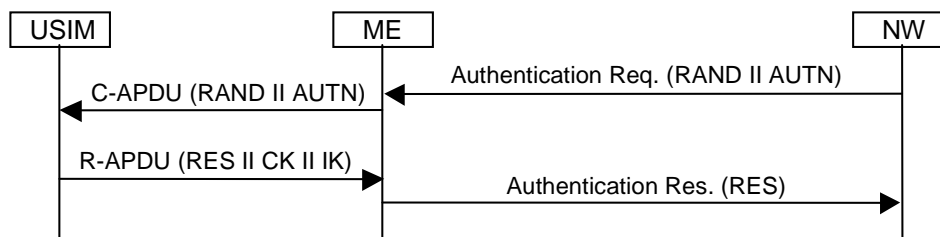


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

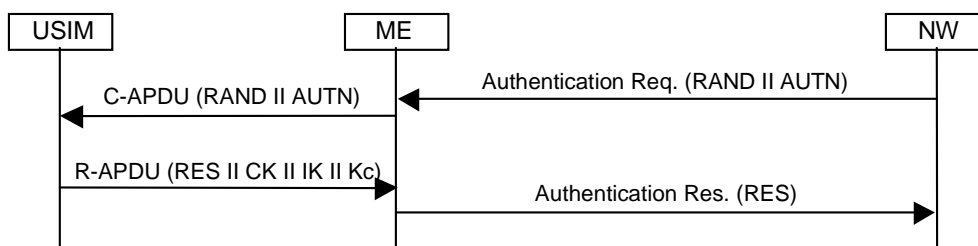


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value different from the AMF_{RESYNCH} value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to step 4).

The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTHENTICATION FAILURE message to the SS (cause "MAC failure").

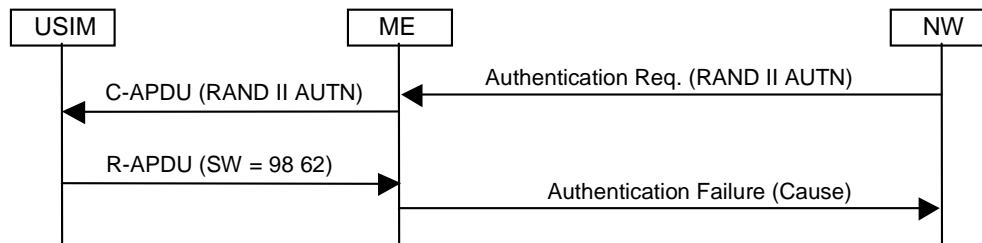


Figure 8.1.2.3.2: MAC failure cases

8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value equal to $AMF_{RESYNCH}$.

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the $AMF_{RESYNCH}$ value it calculates the re-synchronization parameter AUTS as specified in clause 8.1.2.2 (step 1 to step 5) and forward it to the ME.

The ME sends an AUTHENTICATION FAILURE message to the SS including the AUTS parameter.

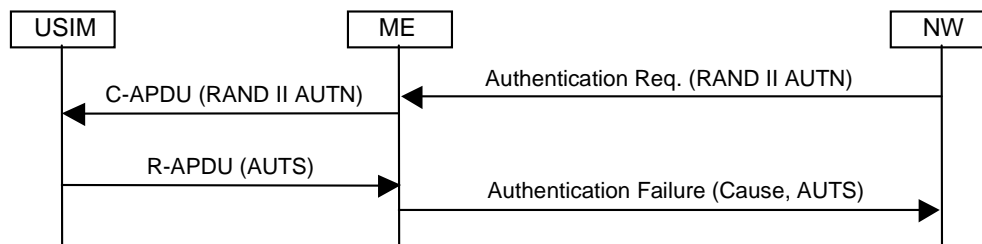


Figure 8.1.2.3.3: SQN failure case

8.1.3 Definition of the test algorithm for VGCS/VBS VSTK generation

In order to be able to easily test the VGCS/VBS key generation and encryption as specified in TS 43.020 [44] and TS 31.102 [23] along the whole system, the availability of a test algorithm for generation of the VSTK-key is needed.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary

length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

8.1.3.1 VSTK generation in the test USIM and SS

The following steps describe the sequence of operations for the function A8_V (TS 43.020 [44]) to be performed in the test USIM and SS, in order to obtain the VSTK, to be used in the subsequent ME/BSS key derivation steps for VGCS/VBS ciphering.

Step 1:

Expand the 36-bit value **VSTK_RAND** to an intermediate 40-bit value **EXPAND**:

FILLER[bits 0,..7] = "11111111"

EXPAND [bits 0,1, . . .39] = **FILLER**[bits 0,..3] || **VSTK_RAND**[bits 0,1, . . .35]

Expand the 40-bit value **EXPAND** to a 128-bit value **EXP_RAND**:

EXP_RAND[bits 0,1, . . .126,127] = **EXPAND**[bits 0,1, . . .39] || **EXPAND**[bits 0,1, . . .39] || **EXPAND**[bits 0,1, . . .39] || **FILLER**[bits 0,..7]

Step 2:

XOR the expanded 128 bit **EXP_RAND** with a stored **V_Ki** i.e. a 128 bit Voice Group or Broadcast Group Key (128 bit) number taken by the USIM from an internal table indexed by VK_Id and Group_Id

The result **VSTK** of this is:

VSTK[bits 0,1, . . .126,127]= **V_Ki** [bits 0,1, . . .126,127] XOR **EXP_RAND**[bits 0,1, . . .126,127]

8.2 Default Parameters for the test USIM

K:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 00
 Bytes 2 (HEX): 01
 Bytes 3 (HEX): 02
 Bytes 4 (HEX): 03
 Bytes 5 (HEX): 04
 Bytes 6 (HEX): 05
 Bytes 7 (HEX): 06
 Bytes 8 (HEX): 07
 Bytes 9 (HEX): 08
 Bytes 10 (HEX): 09
 Bytes 11 (HEX): 0A
 Bytes 12 (HEX): 0B
 Bytes 13 (HEX): 0C
 Bytes 14 (HEX): 0D

Bytes 15 (HEX): 0E

Bytes 16 (HEX): 0F

PIN Disabling:

The PIN enabled / disabled flag will be set to "PIN Disabled". This ensures that when the Test USIM is inserted into a UE the user will not be prompted for PIN entry.

8.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in 3GPP TS 31.101 [22] and 3GPP TS 31.102 [23]. The following clauses define the default parameters to be programmed into each elementary file. Some files may be updated by the UE based on information received from the SS. These are identified in the following clauses.

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This clause suggests values in these cases.

8.3.1 Contents of the EFs at the MF level

8.3.1.1 EF_{DIR}

8.3.1.2 EF_{ICCID} (ICC Identity)

The programming of this EF is a test house option.

8.3.1.3 EF_{PL} (Preferred Languages)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.1.4 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2 Contents of files at the USIM ADF (Application DF) level

8.3.2.1 EF_{LI} (Language Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.2 EF_{IMSI} (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2 to 9 (HEX): 09 10 10 ** ** ** **

49 24 10 ** ** ** * (for Band VI and Band IX)

"*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

- 063 to 125, 189 to 251, 315 to 377, 441 to 503, 567 to 629, 693 to 755, 819 to 881 or 945 to 999.

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

8.3.2.3 EF_{Keys} (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.4 EF_{KeysPS} (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.5 EF_{PLMNwAcT} (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX):

| | | |
|------------------------|----------|--|
| Bytes 1 to 3: | 32 F4 10 | (MCC, MNC) - Translates to 234, 01 |
| Bytes 4 to 5: | C0 B0 | (Access Technology) - Translates to UTRAN, E-UTRAN, GSM, cdma2000 HRPD, cdma2000 1xRTT |
| Bytes 6 to 8: | 32 F4 20 | (MCC, MNC) |
| Bytes 9 to 10: | C0 B0 | (Access Technology) |
| Bytes 11 to 13: | 32 F4 30 | (MCC, MNC) |
| | | |
| | | |
| | | |
| Bytes(5n-4) to (5n-2): | 32 F4 43 | (MCC, MNC) |
| Bytes (5n-1) to 5n: | C0 B0 | (Access Technology) |

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

8.3.2.6 EF_{HPPLMN} (Higher Priority PLMN search period)

File size: 1 byte

Default value (HEX): 00 (No higher priority PLMN search attempts)

8.3.2.7 EF_{ACMmax} (ACM maximum value)

File size: 3 bytes

Default:

| | |
|---------|----|
| Byte 1: | 00 |
| Byte 2: | 00 |
| Byte 3: | 00 |

The above translates to: "Not valid".

8.3.2.8 EF_{UST} (USIM Service Table)

Services will be allocated and activated as follows.

| Services | | Activated | Version |
|---------------|---|-----------|---------|
| Service n°1 : | Local Phone Book | Option | |
| Service n°2 : | Fixed Dialling Numbers (FDN) | Option | |
| Service n°3 : | Extension 2 | Option | |
| Service n°4 : | Service Dialling Numbers (SDN) | Option | |
| Service n°5 : | Extension3 | Option | |
| Service n°6 : | Barred Dialling Numbers (BDN) | Option | |
| Service n°7 : | Extension4 | Option | |
| Service n°8 : | Outgoing Call Information (OCI and OCT) | Option | |
| Service n°9 : | Incoming Call Information (ICI and ICT) | Option | |
| Service n°10: | Short Message Storage (SMS) | Yes | |

| Services | | Activated | Version |
|---------------|--|-----------|-----------------|
| Service n°11: | Short Message Status Reports (SMSR) | Option | |
| Service n°12: | Short Message Service Parameters (SMSP) | Yes | |
| Service n°13: | Advice of Charge (AoC) | Yes | |
| Service n°14: | Capability Configuration Parameters (CCP) | Yes | |
| Service n°15: | Cell Broadcast Message Identifier | Yes | |
| Service n°16: | Cell Broadcast Message Identifier Ranges | Yes | |
| Service n°17: | Group Identifier Level 1 | Option | |
| Service n°18: | Group Identifier Level 2 | Option | |
| Service n°19: | Service Provider Name | Option | |
| Service n°20: | User controlled PLMN selector with Access Technology | Yes | |
| Service n°21: | MSISDN | Option | |
| Service n°22: | Image (IMG) | Option | |
| Service n°23: | Not used (reserved for SoLSA) | No | |
| Service n°24: | Enhanced Multi-Level Precedence and Pre-emption Service | Option | |
| Service n°25: | Automatic Answer for eLMPP | Option | |
| Service n°26: | RFU | No | |
| Service n°27: | GSM Access | Yes | |
| Service n°28: | Data download via SMS-PP | Option | |
| Service n°29: | Data download via SMS-CB | Option | |
| Service n°30: | Call Control by USIM | Option | |
| Service n°31: | MO-SMS Control by USIM | Option | |
| Service n°32: | RUN AT COMMAND command | Option | |
| Service n°33: | Packet Switched Domain | Yes | |
| Service n°34: | Enabled Services Table | Yes | |
| Service n°35: | APN Control List (ACL) | Option | |
| Service n°36: | Depersonalization Control Keys | Option | |
| Service n°37: | Co-operative Network List | Option | |
| Service n°38: | GSM security context | Yes | |
| Service n°39: | CPBCCH Information | Yes | |
| Service n°40: | Investigation Scan | Yes | |
| Service n°41: | MExE | Option | |
| Service n°42: | Operator controlled PLMN selector with Access Technology | Yes | |
| Service n°43: | HPLMN selector with Access Technology | Yes | |
| Service n°44: | Extension 5 | Option | |
| Service n°45: | PLMN Network Name | Option | |
| Service n°46: | Operator PLMN List | Option | |
| Service n°47: | Mailbox Dialling Numbers | Option | |
| Service n°48: | Message Waiting Indication Status | Option | |
| Service n°49: | Call Forwarding Indication Status | Option | |
| Service n°50: | Reserved and shall be ignored | Option | |
| Service n°51: | Service Provider Display Information | Option | |
| Service n°52: | Multimedia Messaging Service (MMS) | Option | |
| Service n°53: | Extension 8 | Option | |
| Service n°54: | Call control on GPRS by USIM | Option | |
| Service n°55: | MMS User Connectivity Parameters | Option | |
| Service n°56: | Network's indication of alerting in the MS (NIA) | Option | |
| Service n°57: | VGCS Group Identifier List (EF _{VGCS} and EF _{VGCSs}) | YES | |
| Service n°58: | VBS Group Identifier List (EF _{VBS} and EF _{VBSs}) | YES | |
| Service n°59: | Pseudonym | Option | REL-6 and later |
| Service n°60: | User Controlled PLMN selector for WLAN access | Option | REL-6 and later |
| Service n°61: | Operator Controlled PLMN selector for WLAN access | Option | REL-6 and later |
| Service n°62: | User controlled WSID list | Option | REL-6 and later |
| Service n°63: | Operator controlled WSID list | Option | REL-6 and later |
| Service n°64: | VGCS security | YES | REL-6 and later |
| Service n°65: | VBS security | YES | REL-6 and later |
| Service n°66: | WLAN Reauthentication Identity | Option | REL-6 and later |
| Service n°67: | Multimedia Messages Storage | Option | REL-6 and later |
| Service n°68: | Generic Bootstrapping Architecture (GBA) | Option | REL-6 and later |
| Service n°69: | MBMS security | Option | REL-6 and later |
| Service n°70: | Data download via USSD and USSD application mode | Option | REL-6 and later |
| Service n°71: | Equivalent HPLMN | Option | REL-6 and later |
| Service n°72: | Additional TERMINAL PROFILE after UICC activation | Option | REL-6 and later |
| Service n°73: | Equivalent HPLMN Presentation Indication | Option | REL-6 and later |

| Services | | Activated | Version |
|--------------|--|-----------|-----------------|
| Service n°74 | Last RPLMN Selection Indication | Yes | REL-7 and later |
| Service n°75 | OMA BCAST Smart Card Profile | No | REL-7 and later |
| Service n°76 | GBA-based Local Key Establishment Mechanism | Option | REL-7 and later |
| Service n°77 | Terminal Applications | No | REL-7 and later |
| Service n°78 | Service Provider Name Icon | Option | REL-8 and later |
| Service n°79 | PLMN Network Name Icon | Option | REL-8 and later |
| Service n°80 | Connectivity Parameters for USIM IP connections | Option | REL-8 and later |
| Service n°81 | Home I-WLAN Specific Identifier List | No | REL-8 and later |
| Service n°82 | I-WLAN Equivalent HPLMN Presentation Indication | No | REL-8 and later |
| Service n°83 | I-WLAN HPLMN Priority Indication | No | REL-8 and later |
| Service n°84 | I-WLAN Last Registered PLMN | No | REL-8 and later |
| Service n°85 | EPS Mobility Management Information | Option | REL-8 and later |
| Service n°86 | Allowed CSG Lists and corresponding indications | Option | REL-8 and later |
| Service n°87 | Call control on EPS PDN connection by USIM | No | REL-8 and later |
| Service n°88 | HPLMN Direct Access | Option | REL-8 and later |
| Service n°89 | eCall Data | Option | REL-8 and later |
| Service n°90 | Operator CSG Lists and corresponding indications | Option | REL-9 and later |
| Service n°92 | Support of CSG Display Control | Option | REL-9 and later |

8.3.2.9 EF_{ACM} (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00
Byte 2: 00
Byte 3: 00

The above translates to: "Not yet implemented".

8.3.2.10 EF_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

8.3.2.13 EF_{PUCT} (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.14 EF_{CBMI} (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

8.3.2.15 EF_{ACC} (Access Control Class)

The EFACC type A is the default type.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000**
 Byte 2: *****

The test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110**
 Byte 2: *****

The test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type C;

File size: 2 Bytes
 Default values (BIN): Byte 1: 100010**
 Byte 2: *****

The test house may set any single bit shown by "*" to "1". This determines the access control class of the USIM.

Type D;

Default values (BIN): Byte 1: 011100**
 Byte 2: *****

The test house may set any single bit shown by "*" to "1". This determines the access control class of the USIM.

8.3.2.16 EF_{FPLMN} (Forbidden PLMNs)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.17 EF_{LOCi} (Location Information)

File size: 11 Bytes
 Default values: Bytes 1 to 4 (HEX): FF FF FF FF (TMSI)
 Bytes 5 to 9 (HEX): 42 F6 18 FF FE (LAI)
 Byte 10 (HEX): FF (RFU)
 Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5 to 9: LAI-MCC = 246 (bytes 5 to 6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8 to 9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1 to 4) may be updated as a result of a location update attempt by the UE.

8.3.2.18 EF_{AD} (Administrative Data)

File size: 4 bytes
 Default values: Byte 1: 10000000 - (type approval operations)
 Byte 2: 00000000
 Byte 3: 00000000
 Byte 4: 00000010

8.3.2.19 Void**8.3.2.20 EF_{CBMID} (Cell Broadcast Message Identifier for Data Download)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.21 EF_{ECC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CBMIR} (Cell Broadcast Message Identifier Range selection)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.23 EF_{PSLOCI} (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1 to 4 (HEX): FF FF FF FF (P-TMSI)

Bytes 5 to 7 (HEX): FF FF FF (P-TMSI signature value)

Bytes 8 to 13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8 to 13: RAI-MCC = 246 (bytes 8 to 9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11 to 12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1 to 4) may be updated as a result of a location update attempt by the UE.

8.3.2.24 EF_{FDN} (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.25 EF_{SMS} (Short messages)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.26 EF_{MSISDN} (MSISDN)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.27 EF_{SMSP} (Short message service parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.28 EF_{SMSS} (SMS status)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.29 EF_{SDN} (Service Dialling Numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.30 EF_{EXT2} (Extension2)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.31 EF_{EXT3} (Extension3)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.32 EF_{SMSR} (Short message status reports)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.33 EF_{ICI} (Incoming Call Information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.34 EF_{OCl} (Outgoing Call Information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.35 EF_{ICT} (Incoming Call Timer)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.36 EF_{OCT} (Outgoing Call Timer)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.37 EF_{EXT5} (Extension5)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.38 EF_{CCP2} (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.39 EF_{eMLPP} (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

8.3.2.40 EF_{AAeM} (Automatic Answer for eMLPP Service)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.41 Void

8.3.2.42 EF_{Hiddenkey} (Key for hidden phone book entries)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.43 Void

8.3.2.44 EF_{BDN} (Barred dialling numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.45 EF_{EXT4} (Extension 4)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.46 EF_{CMl} (Comparison method information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.47 EF_{EST} (Enabled service table)

The programming of this EF is a test house option.

8.3.2.48 EF_{ACL} (Access point name control list)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.49 EF_{DCK} (Depersonalization control keys)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.50 EF_{CNL} (Co-operative network list)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.51 EF_{START-HFN} (Initialisation values for Hyperframe number)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.52 EF_{THRESHOLD} (Maximum value of START)

The programming of this EF is a test house option.

8.3.2.53 EF_{OPLMNwACT} (Operator controlled PLMN selector with Access Technology)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.54 EF_{HPLMNwAcT} (HPLMN selector with Access Technology)

File size: 5n (n ≥ 1) Bytes

Default values: Bytes 1 to 3 (HEX): 00 F1 10 (MCC/MNC of Test UICC's Home PLMN)

Bytes 4 to 5 (HEX): C0 B0 (all Access Technologies)

Bytes 6 to 5n (HEX): FF FF FF 00 00
FF FF FF 00 00

...

FF FF FF 00 00

Bytes 1 to 3: 1st HPLMN entry with HPLMN-MCC = 001 (bytes 1 to 2) and HPLMN-MNC = 01 (byte 3) which are frequently used in multimode and equal the EF IMSI's default MCC/MNC information.

Bytes 4 to 5: All Access Technologies selected for 1st HPLMN entry.

Bytes 6 to 5n: 2nd and more HPLMN entries are empty as per default EF parameters given in 3GPP TS 31.102 [23], annex E.

8.3.2.55 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 Void**8.3.2.57 EF_{NETPAR} (Network Parameters)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.58 EF_{PNN} (PLMN Network Name)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.59 EF_{OPL} (Operator PLMN List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.60 EF_{MBDN} (Mailbox Dialling Numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.61 EF_{EXT6} (Extension6)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.62 EF_{MBI} (Mailbox Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.63 EF_{MWIS} (Message Waiting Indication Status)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.64 EF_{CFIS} (Call Forwarding Indication Status)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.65 EF_{EXT7} (Extension7)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.66 EF_{SPDI} (Service Provider Display Information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.67 EF_{MMSN} (MMS Notification)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.68 EF_{EXT8} (Extension 8)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.69 EF_{MMSICP} (MMS Issuer Connectivity Parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.70 EF_{MMSUP} (MMS User Preferences)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.71 EF_{MMSUCP} (MMS User Connectivity Parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.72 EF_{NIA} (Network's Indication of Alerting)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

If service n°57 is "available", this file shall be present.

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

File size: Bytes 200

Default values:

| Bytes | Group ID | Value | BCD encoding in the USIM |
|-------|----------|---------|--------------------------|
| 1-4 | 1 | 12 | 21 FF FF FF |
| 5-8 | 2 | 123 | 21 F3 FF FF |
| 9-12 | 3 | 1234 | 21 43 FF FF |
| 13-16 | 4 | 12348 | 21 43 F8 FF |
| 17-20 | 5 | 123491 | 21 43 19 FF |
| 21-24 | 6 | 1235029 | 21 53 20 F9 |
| 25-28 | 7 | 12351 | 21 53 F1 FF |
| 29-32 | 8 | 12352 | 21 53 F2 FF |

| Bytes | Group ID | Value | BCD encoding in the USIM |
|---------|----------|---------|--------------------------|
| 33-36 | 9 | 12353 | 21 53 F3 FF |
| 37-40 | 10 | 12354 | 21 53 F4 FF |
| 41-44 | 11 | 12355 | 21 53 F5 FF |
| 45-48 | 12 | 12356 | 21 53 F6 FF |
| 49-52 | 13 | 12357 | 21 53 F7 FF |
| 53-56 | 14 | 12358 | 21 53 F8 FF |
| 57-60 | 15 | 12359 | 21 53 F9 FF |
| 61-64 | 16 | 20000 | 02 00 F0 FF |
| 65-68 | 17 | 20001 | 02 00 F1 FF |
| 69-72 | 18 | 20002 | 02 00 F2 FF |
| 73-76 | 19 | 20003 | 02 00 F3 FF |
| 77-80 | 20 | 20004 | 02 00 F4 FF |
| 81-84 | 21 | 20005 | 02 00 F5 FF |
| 85-88 | 22 | 20006 | 02 00 F6 FF |
| 89-92 | 23 | 20007 | 02 00 F7 FF |
| 93-96 | 24 | 20008 | 02 00 F8 FF |
| 97-100 | 25 | 20009 | 02 00 F9 FF |
| 101-104 | 26 | 20010 | 02 10 F0 FF |
| 105-108 | 27 | 66660 | 66 66 F0 FF |
| 109-112 | 28 | 66661 | 66 66 F1 FF |
| 113-116 | 29 | 66662 | 66 66 F2 FF |
| 117-120 | 30 | 666638 | 66 66 83 FF |
| 121-124 | 31 | 66664 | 66 66 F4 FF |
| 125-128 | 32 | 66665 | 66 66 F5 FF |
| 129-132 | 33 | 66666 | 66 66 F6 FF |
| 133-136 | 34 | 66667 | 66 66 F7 FF |
| 137-140 | 35 | 66668 | 66 66 F8 FF |
| 141-144 | 36 | 66669 | 66 66 F9 FF |
| 145-148 | 37 | 66670 | 66 76 F0 FF |
| 149-152 | 38 | 80120 | 08 21 F0 FF |
| 153-156 | 39 | 80121 | 08 21 F1 FF |
| 157-160 | 40 | 80122 | 08 21 F2 FF |
| 161-164 | 41 | 80123 | 08 21 F3 FF |
| 165-168 | 42 | 80124 | 08 21 F4 FF |
| 169-172 | 43 | 80125 | 08 21 F5 FF |
| 173-176 | 44 | 80126 | 08 21 F6 FF |
| 177-180 | 45 | 80127 | 08 21 F7 FF |
| 181-184 | 46 | 80128 | 08 21 F8 FF |
| 185-188 | 47 | 80129 | 08 21 F9 FF |
| 189-192 | 48 | 80130 | 08 31 F0 FF |
| 193-196 | 49 | 99999 | 99 99 F9 FF |
| 197-200 | 50 | 1111119 | 11 11 11 F9 |

For Group Id = 1 V_Ki with VK_Id = 0:

Size: 16 Bytes

Default values:

- Bytes 1 (HEX): 00
- Bytes 2 (HEX): 01
- Bytes 3 (HEX): 02
- Bytes 4 (HEX): 03
- Bytes 5 (HEX): 04
- Bytes 6 (HEX): 05
- Bytes 7 (HEX): 06
- Bytes 8 (HEX): 07
- Bytes 9 (HEX): 08
- Bytes 10 (HEX): 09

Bytes 11 (HEX): 0A
 Bytes 12 (HEX): 0B
 Bytes 13 (HEX): 0C
 Bytes 14 (HEX): 0D
 Bytes 15 (HEX): 0E
 Bytes 16 (HEX): 0F

Group Id= 1: V_Ki with VK_Id = 1:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 01
 Bytes 2 (HEX): 02
 Bytes 3 (HEX): 03
 Bytes 4 (HEX): 04
 Bytes 5 (HEX): 05
 Bytes 6 (HEX): 06
 Bytes 7 (HEX): 07
 Bytes 8 (HEX): 08
 Bytes 9 (HEX): 09
 Bytes 10 (HEX): 0A
 Bytes 11 (HEX): 0B
 Bytes 12 (HEX): 0C
 Bytes 13 (HEX): 0D
 Bytes 14 (HEX): 0E
 Bytes 15 (HEX): 0F
 Bytes 16 (HEX): 00

8.3.2.74 EF_{VGCS} (Voice Group Call Service Status)

.If service n°57 is "available", this file shall be present.

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF_{VGCS}. This EF shall always be allocated if EF_{VGCS} is allocated. The following list of group ID are activated: 1, 4, 20, 30, 50.

File size: 7 Bytes

Default value(HEX) : Bytes 1-7: '09 00 08 20 00 00 FE'

8.3.2.75 EF_{VBS} (Voice Broadcast Service)

If service n°58 is "available", this file shall be present.

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

File size: Bytes 200

Default values:

| Bytes | Group ID | Value | BCD encoding in the USIM |
|-------|----------|-------|--------------------------|
| 1-4 | 1 | 12 | 21 FF FF FF |
| 5-8 | 2 | 123 | 21 F3 FF FF |

| Bytes | Group ID | Value | BCD encoding in the USIM |
|---------|----------|---------|--------------------------|
| 9-12 | 3 | 1234 | 21 43 FF FF |
| 13-16 | 4 | 12348 | 21 43 F8 FF |
| 17-20 | 5 | 123491 | 21 43 19 FF |
| 21-24 | 6 | 1235029 | 21 53 20 F9 |
| 25-28 | 7 | 12351 | 21 53 F1 FF |
| 29-32 | 8 | 12352 | 21 53 F2 FF |
| 33-36 | 9 | 12353 | 21 53 F3 FF |
| 37-40 | 10 | 12354 | 21 53 F4 FF |
| 41-44 | 11 | 12355 | 21 53 F5 FF |
| 45-48 | 12 | 12356 | 21 53 F6 FF |
| 49-52 | 13 | 12357 | 21 53 F7 FF |
| 53-56 | 14 | 12358 | 21 53 F8 FF |
| 57-60 | 15 | 12359 | 21 53 F9 FF |
| 61-64 | 16 | 20000 | 02 00 F0 FF |
| 65-68 | 17 | 20001 | 02 00 F1 FF |
| 69-72 | 18 | 20002 | 02 00 F2 FF |
| 73-76 | 19 | 20003 | 02 00 F3 FF |
| 77-80 | 20 | 20004 | 02 00 F4 FF |
| 81-84 | 21 | 20005 | 02 00 F5 FF |
| 85-88 | 22 | 20006 | 02 00 F6 FF |
| 89-92 | 23 | 20007 | 02 00 F7 FF |
| 93-96 | 24 | 20008 | 02 00 F8 FF |
| 97-100 | 25 | 20009 | 02 00 F9 FF |
| 101-104 | 26 | 20010 | 02 10 F0 FF |
| 105-108 | 27 | 66660 | 66 66 F0 FF |
| 109-112 | 28 | 66661 | 66 66 F1 FF |
| 113-116 | 29 | 66662 | 66 66 F2 FF |
| 117-120 | 30 | 666638 | 66 66 83 FF |
| 121-124 | 31 | 66664 | 66 66 F4 FF |
| 125-128 | 32 | 66665 | 66 66 F5 FF |
| 129-132 | 33 | 66666 | 66 66 F6 FF |
| 133-136 | 34 | 66667 | 66 66 F7 FF |
| 137-140 | 35 | 66668 | 66 66 F8 FF |
| 141-144 | 36 | 66669 | 66 66 F9 FF |
| 145-148 | 37 | 66670 | 66 76 F0 FF |
| 149-152 | 38 | 80120 | 08 21 F0 FF |
| 153-156 | 39 | 80121 | 08 21 F1 FF |
| 157-160 | 40 | 80122 | 08 21 F2 FF |
| 161-164 | 41 | 80123 | 08 21 F3 FF |
| 165-168 | 42 | 80124 | 08 21 F4 FF |
| 169-172 | 43 | 80125 | 08 21 F5 FF |
| 173-176 | 44 | 80126 | 08 21 F6 FF |
| 177-180 | 45 | 80127 | 08 21 F7 FF |
| 181-184 | 46 | 80128 | 08 21 F8 FF |
| 185-188 | 47 | 80129 | 08 21 F9 FF |
| 189-192 | 48 | 80130 | 08 31 F0 FF |
| 193-196 | 49 | 99999 | 99 99 F9 FF |
| 197-200 | 50 | 1111119 | 11 11 11 F9 |

8.3.2.76 EF_{VBS} (Voice Broadcast Service Status)

If service n°58 is "available", this file shall be present.

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF_{VBS}. This EF shall always be allocated if EF_{VBS} is allocated.

The following list of group ID are activated: 1, 4, 20, 30, 50.

File size: 7 Bytes

Default values (HEX): Bytes 1-7: '09 00 08 20 00 00 FE'

For Group ID= 1 V_Ki with VK_Id = 0:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 0F
Bytes 2 (HEX): 0E
Bytes 3 (HEX): 0D
Bytes 4 (HEX): 0C
Bytes 5 (HEX): 0B
Bytes 6 (HEX): 0A
Bytes 7 (HEX): 09
Bytes 8 (HEX): 08
Bytes 9 (HEX): 07
Bytes 10 (HEX): 06
Bytes 11 (HEX): 05
Bytes 12 (HEX): 04
Bytes 13 (HEX): 03
Bytes 14 (HEX): 02
Bytes 15 (HEX): 01
Bytes 16 (HEX): 00

For Group Id=1 V_Ki with VK_Id = 1:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 00
Bytes 2 (HEX): 0F
Bytes 3 (HEX): 0E
Bytes 4 (HEX): 0D
Bytes 5 (HEX): 0C
Bytes 6 (HEX): 0B
Bytes 7 (HEX): 0A
Bytes 8 (HEX): 09
Bytes 9 (HEX): 08
Bytes 10 (HEX): 07
Bytes 11 (HEX): 06
Bytes 12 (HEX): 05
Bytes 13 (HEX): 04
Bytes 14 (HEX): 03
Bytes 15 (HEX): 02
Bytes 16 (HEX): 01

8.3.2.77 EF_{VGCSA} (Voice Group Call Service Ciphering Algorithm)

If service n°64 is "available", this file shall be present.

This EF contains the ciphering algorithm identifiers for each of the Master Group Key (V_Ki) of each VGCS group that the user has subscribed to (defined in EF_{VGCS}).

File size: 2 Bytes

Default value: Byte 1 = '01' (i.e. A5/1) and Byte 2 = '03' (i.e. A5/3)

8.3.2.78 EF_{VBSA} (Voice Broadcast Service Ciphering Algorithm)

If service n°65 is "available", this file shall be present.

This EF contains the ciphering algorithm identifiers for each of the Master Group Key (V_Ki) of each VBS group that the user has subscribed to (defined in EF_{VBS}).

File size: 2 Bytes

Default value: Byte 1 = '01' (i.e. A5/1) and Byte 2 = '03' (i.e. A5/3)

8.3.2.79 EF_{GBABP} (GBA Bootstrapping parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.80 EF_{MSK} (MBMS Service Keys List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.81 EF_{MUK} (MBMS User Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.82 Void

8.3.2.83 EF_{GBANL} (GBA NAF List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.84 EF_{EHPLMN} (Equivalent HPLMN)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.85 EF_{EHPLMNPI} (Equivalent HPLMN Presentation Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.86 EF_{LRPLMNSI} (Last RPLMN Selection Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.87 EF_{NAFKCA} (NAF Key Centre Address)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.88 EF_{SPNI} (Service Provider Name Icon)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.89 EF_{PNNI} (PLMN Network Name Icon)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.90 EF_{NCP-IP} (Network Connectivity Parameters for USIM IP connections)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.91 EF_{EPSLOCI} (EPS location information)

The programming of this EF is a test house option.

8.3.2.92 EF_{EPSNSC} (EPS NAS Security Context)

The programming of this EF is a test house option.

8.3.3 Contents of DFs at the USIM ADF (Application DF) level

8.3.3.1 Contents of files at the USIM SoLSA level

8.3.3.1.1 EF_{SAI} (SoLSA Access Indicator)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.2 EF_{SLL} (SoLSA LSA List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.3 LSA Descriptor files

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.4 Contents of files at the MExE level

8.3.3.1.4.1 EF_{MExE-ST} (MExE Service table)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.4.2 EF_{ORPK} (Operator Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.4.3 EF_{ARPK} (Administrator Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.4.4 EF_{TPRPK} (Third Party Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.1.4.5 EF_{TKCDF} (Trusted Key/Certificates Data Files)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2 Contents of files at the DF PHONEBOOK level

8.3.3.2.1 EF_{PBR} (Phone Book Reference file)

The programming of this EF is a test house option.

8.3.3.2.2 EF_{IAP} (Index Administration Phone book)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.3 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.4 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.5 EF_{PBC} (Phone Book Control)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.6 EF_{GRP} (Grouping file)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.7 EF_{AAS} (Additional number Alpha String)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.8 EF_{GAS} (Grouping information Alpha String)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.9 EF_{ANR} (Additional Number)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.10 EF_{SNE} (Second Name Entry)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.11 EF_{CCP1} (Capability Configuration Parameters 1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.12 Phone Book Synchronization

8.3.3.2.12.1 EF_{UID} (Unique Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.12.2 EF_{PSC} (Phone book Synchronization Counter)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.12.3 EF_{CC} (Change Counter)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.12.4 EF_{PUID} (Previous Unique Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.13 EF_{EMAIL} (e-mail address)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.3 Contents of files at the DF GSM-ACCESS level (Files required for GSM Access)

8.3.3.3.1 EF_{Kc} (GSM Cipherring key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1 to 8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF_{KcGPRS} (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.3.3 Void

8.3.3.3.4 EF_{CPBCCCH} (CPBCCCH Information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.3.5 EF_{InvScan} (Investigation Scan)

The programming of this EF follows default parameter.

8.3.3.4 Contents of files at the DF HNB level

8.3.3.4.1 EF_{ACSGL} (Allowed CSG Lists)

The programming of this EF is a test house option.

8.3.3.4.2 EF_{CSGT} (CSG Type)

The programming of this EF is a test house option.

8.3.3.4.3 EF_{HNBName} (Home NodeB Name)

The programming of this EF is a test house option.

8.3.3.4.4 EF_{OCSGL} (Operator CSG Lists)

The programming of this EF is a test house option.

8.3.3.4.5 EF_{OCSGT} (Operator CSG Type)

The programming of this EF is a test house option.

8.3.3.4.6 EF_{OHNBName} (Operator Home NodeB Name)

The programming of this EF is a test house option.

8.3.4 Contents of EFs at the TELECOM level

8.3.4.1 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.4.3 EF_{ECCP} (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF_{SUME} (SetUpMenu Elements)

The programming of this EF is a test house option.

8.3.4.5 EF_{ARR} (Access rule reference)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.5 Contents of DFs at the TELECOM level

8.3.5.1 Contents of files at the DF_{GRAPHICS} level

8.3.5.1.1 EF_{IMG} (Image)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.5.1.2 Image Instance Data Files

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.5.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

The programming of this EF is a test house option.

9 Default Message Contents

9.1 Default Message Contents for Signalling

9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of 3GPP TS 34.123-1 [1], shall be transmitted and checked by the system simulator.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

Default SYSTEM INFORMATION:

NOTE: SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

Contents of ACTIVE SET UPDATE message: AM

| Information Element | Value/remark | Version |
|---|--|--------------------|
| Message Type | | |
| RRC transaction identifier | Arbitrarily selects one integer between 0 to 3 | |
| Integrity check info | | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | |
| Activation time | Now | |
| New U-RNTI | Not Present | |
| New H-RNTI | Not Present | Rel-6 |
| New Primary E-RNTI | Not Present | Rel-6 |
| New Secondary E-RNTI | Not Present | Rel-6 |
| CN information info | Not Present | |
| DTX-DRX timing information | Not Present | Rel-7 |
| DTX-DRX Information | Not Present | Rel-7 |
| HS-SCCH less Information | Not Present | Rel-7 |
| MIMO parameters | Not Present | Rel-7 |
| MIMO mode with four transmit antennas parameters | Not Present | Rel-11 |
| DCH Enhancements info FDD | Not Present | Rel-12 |
| Maximum allowed UL TX power | Not Present – use default value | |
| Uplink secondary cell info FDD | Not Present | Rel-9 |
| E-DCH reconfiguration information on secondary UL frequency | Not Present | Rel-9 |
| Uplink CLTD info FDD | Not Present | Rel-11 |
| F-TPICH reconfiguration info | Not Present | Rel-11 |
| Uplink OLTD info FDD | Not Present | Rel-11 |
| Radio link addition information | Not Present | |
| Radio link addition information on secondary UL frequency | Not Present | Rel-9 |
| Serving Cell Change Parameters | Not present | Rel-8 |
| Radio link removal information | Not Present | |
| Radio link removal information on secondary UL frequency | Not present | Rel-9 |
| TX Diversity Mode | None | |
| SSDT information | Not Present | R99 and Rel-4 only |

| Information Element | Value/remark | Version |
|---|--------------|---------|
| DPC Mode | Not Present | Rel-5 |
| Serving HS-DSCH cell information | Not Present | Rel-6 |
| E-DCH reconfiguration information | Not Present | Rel-6 |
| UL 16QAM configuration | Not Present | Rel-7 |
| UL 64QAM configuration | Not Present | Rel-11 |
| Uplink MIMO info FDD | Not Present | Rel-11 |
| E-DCH reconfiguration information same serving cell | Not Present | Rel-7 |
| E-TFC Boost Info | Not Present | Rel-7 |
| E-DPDCH power interpolation | Not Present | Rel-7 |
| Downlink secondary cell info FDD | Not present | Rel-8 |
| Additional downlink secondary cell info list FDD | Not present | Rel-10 |
| Downlink secondary cell info FDD | Not Present | Rel-10 |
| Additional downlink secondary cell info list FDD 2 | Not present | Rel-11 |
| Downlink secondary cell info FDD | Not Present | Rel-11 |

Contents of ACTIVE SET UPDATE COMPLETE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message |
| RRC transaction identifier | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | |
| | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |

Contents of ACTIVE SET UPDATE FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message |
| RRC transaction identifier | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | |
| | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Refer to test requirement |

Contents of CELL UPDATE message: TM

| Information Element | Value/remark | Version |
|-------------------------------|--|---------|
| Message Type | Checked to see if it is set to the following values 0000 0000 0001B | |
| U-RNTI | | |
| - SRNC identity | 0000 0000 0000 0000 0001B | |
| - S-RNTI | | |
| RRC transaction identifier | Checked to see if it is absent | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - Message authentication code | | |
| - RRC Message sequence number | | |
| | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| START List | Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE . | |
| | Checked to see if the 'CN domain identity' and 'START' | Rel-6 |

| | | |
|---|--|--------|
| | IEs are present for each CN domain for which RABs are established or is the latest configured CN domain. | |
| - CN domain identity - START | Checked to see if it is one of the supported CN domains This IE is checked to see if it is present. The first/ leftmost bit of the bit string contains the most significant bit of the START. | |
| AM_RLC error indication (RB2, RB3 or RB4) | Checked to see if it is set to 'FALSE' | |
| AM_RLC error indication (RB>4) | Checked to see if it is set to 'FALSE' | |
| Cell update cause | See the specific test case | |
| Traffic volume indicator | Checked to see if it is absent | Rel-6 |
| Failure cause | Checked to see if it is absent | |
| RB timer indicator | | |
| - T314 expired | Checked to see if it is set to 'FALSE' | |
| - T315 expired | Checked to see if it is set to 'FALSE' | |
| Establishment cause | This IE is checked to see if it is absent | Rel-5 |
| CS Call Type | Not Present | Rel-7 |
| HS-PDSCH in CELL_FACH | Not checked | Rel-7 |
| UE Mobility State Indicator | Not Present | Rel-7 |
| Capability change indicator | Not Present | Rel-7 |
| Reconfiguration Status Indicator | Checked to see if it is absent | Rel-6 |
| Measured results on RACH | Not checked | |
| Logged Meas Available | Not Present | Rel-10 |
| ANR Logging Results Available | Not Present | Rel-10 |

Contents of CELL UPDATE CONFIRM message: UM

| Information Element | Value/remark | Version |
|--|--|--------------------|
| Message Type | | |
| U-RNTI | If this message is sent on CCCH, use the following values. Else, this IE is absent. | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| RRC transaction identifier | Selects an arbitrary integer between 0 to 3 | |
| Integrity check info | | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | |
| Integrity protection mode info | Not Present | |
| Ciphering mode info | Not Present | |
| Activation time | Not Present - use default value | |
| New U-RNTI | Not Present | |
| New C-RNTI | Not Present | |
| New DSCH-RNTI | Not Present | R99 and Rel-4 only |
| New H-RNTI | Not Present | Rel-5 |
| New Primary E-RNTI | Not present | Rel-6 |
| New Secondary E-RNTI | Not present | Rel-6 |
| RRC State indicator | CELL_FACH | |
| UTRAN DRX cycle length coefficient | Not Present | |
| RLC re-establish indicator (RB2, RB3 and RB4) | FALSE | |
| RLC re-establish indicator (RB5 and upwards) | FALSE | |
| CN information info | Not Present | |
| URA identity | Not Present | |
| RNC support for change of UE capability | Not Present | Rel-7 |
| RB information to release list | Not Present | |
| RB information to reconfigure list | Not Present | |
| RB information to be affected list | Not Present | |
| Downlink counter synchronization info | Not Present | |
| PDCP ROHC target mode | Not Present | Rel-5 |
| UL Transport channel information common for all transport channels | Not Present | |
| Deleted TrCH information list | Not Present | |
| Added or Reconfigured TrCH information list | Not Present | |
| CHOICE Mode | FDD | |

| Information Element | Value/remark | Version |
|--|--------------|--------------------|
| - CPCH set ID | Not Present | R99 and Rel-4 only |
| - Added or Reconfigured TrCH information for DRAC list | Not Present | R99 and Rel-4 only |
| DL Transport channel information common for all transport channels | Not Present | |
| Deleted TrCH information list | Not Present | |
| Added or Reconfigured TrCH information list | Not Present | |
| Frequency info | Not Present | |
| DTX-DRX timing information | Not Present | Rel-7 |
| DTX-DRX Information | Not Present | Rel-7 |
| HS-SCCH less Information | Not Present | Rel-7 |
| MIMO parameters | Not Present | Rel-7 |
| MIMO mode with four transmit antennas parameters | Not Present | Rel-11 |
| DCH Enhancements info FDD | Not Present | Rel-12 |
| Maximum allowed UL TX power | Not Present | |
| CHOICE channel requirement | Not Present | |
| E-DCH Info | Not Present | Rel-6 |
| CHOICE mode | FDD | R99 and Rel-4 only |
| - Downlink PDSCH information | Not Present | R99 and Rel-4 only |
| Uplink secondary cell info FDD | Not Present | Rel-9 |
| Uplink CLTD info FDD | Not Present | Rel-11 |
| Uplink OLTD info FDD | Not Present | Rel-11 |
| Downlink HS-PDSCH Information | Not Present | Rel-5 |
| Downlink information common for all radio links | Not Present | |
| Downlink information per radio link list | Not Present | |
| Downlink information for each radio link | Not Present | |
| Downlink secondary cell info FDD | Not Present | Rel-8 |
| Additional downlink secondary cell info list FDD | Not present | Rel-10 |
| Downlink secondary cell info FDD | Not Present | Rel-10 |
| Additional downlink secondary cell info list FDD 2 | Not present | Rel-11 |
| Downlink secondary cell info FDD | Not Present | Rel-11 |
| Common E-RGCH info FDD | Not Present | Rel-11 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 |

Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| CN domain identity | CS domain or PS domain |
| NAS message | See Specific Message Content for each test case |

Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects one integer between 0 to 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| Activation time | now |

| | |
|---------------------------------|---|
| RAB Info | |
| - RAB identity | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |
| - CN domain identity | CS domain |
| - NAS Synchronization Indicator | Not present |
| - Re-establishment timer | Use T314 |
| Inter-system message | |
| - CHOICE System type | GSM |
| - Frequency Band | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band" |
| - CHOICE GSM message | Single GSM message |
| - Single GSM message | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1..512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element | Value/remark |
|-----------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND -GSM message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Inter-RAT handover failure | |
| -Inter-RAT handover failure cause | physical channel failure |
| Inter-system message | Not Checked |

Contents of INITIAL DIRECT TRANSFER message: AM

| Information Element | Value/remark | Version |
|--------------------------------|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| PLMN identity | This IE is checked to see if it is absent | Rel-6 |
| CN domain identity | Checked to see if set to supported CN domain as specified in the Ixit statements. | |
| Intra Domain NAS Node Selector | | |
| - CHOICE version | R99 | |
| - CHOICE CN type | GSM-MAP | |
| - CHOICE Routing basis | Local (P)TMSI | |
| - Routing parameter | If the IE "CN domain identity" is equal to "CS domain", this bit string is set to bits b14 through b23 of the TMSI. If the IE "CN domain identity" is equal to "PS domain", this bit string is set to bits b14 through b23 of the P-TMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. | |
| - Entered parameter | Not checked | |

| | | |
|--------------------------|--|-------|
| NAS message | Set according to that indicated in specific message content for each test case | |
| START | This IE is checked to see if it is present. | |
| Establishment cause | This IE is checked to see if it is absent | Rel-5 |
| Measured results on RACH | Not checked | |
| MBMS joined information | This IE is checked to see if it is absent | Rel-6 |

Contents of LOGGING MEASUREMENT CONFIGURATION message: AM

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---------|
| Message Type | | | Rel-10 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | Rel-10 |
| Integrity check info | | | Rel-10 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | |
| Logged Measurements Configuration Info | A1, A2 | Not present | Rel-10 |
| Logged ANR configuration Info | A1, A2 | | Rel-10 |
| - Logging Duration | | 1 hour | |
| - Intra-UTRA ANR | | | |
| - CHOICE <i>Absolute Threshold</i> | A1 | RSCP for ANR | |
| - RSCP | | Not present (default -100 dBm) | |
| - CHOICE <i>Absolute Threshold</i> | A2 | Ec/N0 for ANR | |
| - Ec/N0 | | Not present (default -10 dB) | |
| - Logging Relative Threshold | | Not present | |
| - Inter-RAT ANR for E-UTRA | | Not present | |
| Indicator | | | |
| - Inter-RAT ANR for GSM Indicator | | Not present | |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | Configuring of IE for ANR over UTRAN testing using RSCP for Absolute Threshold | Rel-10 |
| A2 | Configuring of IE for ANR over UTRAN testing using Ec/N0 for Absolute Threshold | Rel-10 |

Contents of MBMS ACCESS INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------------|---|---------|
| Message type | | Rel-6 |
| Service list | 1 entry in the list | Rel-6 |
| - MBMS short transmission ID | Index to the MBMS transmission identity in the previous MBMS MODIFIED SERVICES INFORMATION or MBMS UNMODIFIED SERVICES INFORMATION corresponding to the service for which the current counting procedure applies. | Rel-6 |
| - Access probability factor – Idle | 0 (corresponding to the actual probability factor value 1) | Rel-6 |
| - Connected mode counting scope | | Rel-6 |
| - URA_PCH | FALSE | Rel-6 |
| - CELL_PCH | FALSE | Rel-6 |
| - CELL_FACH | FALSE | Rel-6 |

Contents of MBMS GENERAL INFORMATION message: UM

| Information Element | Value/remark | Version |
|--|---|---------|
| Message type | | Rel-6 |
| MBMS preferred frequency information | Not Present | Rel-6 |
| MBMS timers and counters | | Rel-6 |
| - T318 | 4000 ms | Rel-6 |
| MICH configuration information | | Rel-6 |
| - MICH Power offset | -5dB | Rel-6 |
| - CHOICE Mode | FDD | Rel-6 |
| - Channelisation code | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases" | Rel-6 |
| - Number of NI per frame | 18 | Rel-6 |
| - STTD indicator | FALSE | Rel-6 |
| Cell group identity | '000000000001' (cells with mid range UARFCN) '000000000010' (cells with low range UARFCN) '000000000011' (cells with high range UARFCN) | Rel-6 |
| Default MSCH configuration information | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | Not Present | Rel-6 |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM

| Information Element | Value/remark | Version |
|--|-----------------------|---------|
| Message type | | Rel-6 |
| RB information list | 2 entries in the list | Rel-6 |
| - RB identity | 14 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| - RB identity | 15 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |

| Information Element | Value/remark | Version |
|--|--|---------|
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| TrCh information for each TrCh | 2 entries in the list | Rel-6 |
| - Transport channel identity | 17 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| - Transport channel identity | 23 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| TrCh information for each CCTrCh | 2 entries in the list | Rel-6 |
| - CCTrCH identity | 1 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |

| Information Element | Value/remark | Version |
|---|--|---------|
| - Power offset information | Not Present | |
| - CCTrCH identity | 2 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCS signalling</i> | Normal | |
| - TFCS Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |
| - Power offset information | Not Present | |
| PhyCh information | 2 entries in list | Rel-6 |
| - PhyCh identity | 13 | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE <i>mode</i> | FDD | |
| - Secondary scrambling code | Not Present | |
| - STTD indicator | FALSE | |
| - Spreading factor | Reference to clause 6.10 "Parameter Set" | |
| - Code number | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases" | |
| - Timing Offset | Set to (Cell No. – 21) * 18 for MBMS Cell Nos. 21-28. (actual value = IE value * 256 chips) | |
| - PhyCh identity | 17 | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE <i>mode</i> | FDD | |
| - Secondary scrambling code | Not Present | |
| - STTD indicator | FALSE | |
| - Spreading factor | Reference to clause 6.10 "Parameter Set" | |
| - Code number | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases" | |
| - Timing Offset | Set to (Cell No. – 21) * 18 for MBMS Cell Nos. 21-28. (actual value = IE value * 256 chips) | |

Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element | Condition | Value/remark | Version |
|--|------------|--|---------|
| Message type | A1, A2, A3 | | Rel-6 |
| S-CCPCH list | A1 | Not Present | Rel-6 |
| S-CCPCH list | A2 | Contains 1 S-CCPCH | Rel-6 |
| S-CCPCH list | A3 | Contains 2 S-CCPCH | Rel-6 |
| - S-CCPCH identity | A2, A3 | 1 if combining is used in the test (MBMS NEIGHBOURING CELL P-T-M RB INFORMATION is transmitted in the same modification period). Not Present if combining is not used in the test (MBMS NEIGHBOURING CELL P-T-M RB INFORMATION is not transmitted in the same modification period). | Rel-6 |
| - Secondary CCPCH info | | 13 | Rel-6 |
| - MBMS Soft Combining Timing Offset | | Not Present | Rel-6 |
| - TrCh information common for all TrCh | | 1 | Rel-6 |
| - TrCH information list | | | Rel-6 |
| - TrCh information | | 17 | Rel-6 |
| - RB information list | | | Rel-6 |
| - RB information | | 14 | Rel-6 |
| - MBMS short transmission ID | | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6 |
| - MBMS logical channel identity | | 1 | Rel-6 |
| - MSCH configuration information | | Not Present | Rel-6 |
| - S-CCPCH identity | A3 | Not Present | Rel-6 |
| - Secondary CCPCH info | | 17 | Rel-6 |
| - MBMS Soft Combining Timing Offset | | Not Present | Rel-6 |
| - TrCh information common for all TrCh | | 2 | Rel-6 |
| - TrCH information list | | | Rel-6 |
| - TrCh information | | 23 | Rel-6 |
| - RB information list | | | Rel-6 |
| - RB information | | 15 | Rel-6 |
| - MBMS short transmission ID | | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6 |
| - MBMS logical channel identity | | 2 | Rel-6 |
| - MSCH configuration information | | Not Present | Rel-6 |
| S-CCPCH in SIB type 5 | A1, A2, A3 | Not Present | Rel-6 |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | No services ongoing or starting |
| A2 | 1 service ongoing or starting |
| A3 | 2 services ongoing or starting |

Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------------|--|---------|
| Message type | | Rel-6 |
| Modified services list | 1 entry per modified service - maximum 12. If no services are modified in the current modification period this IE is Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | Set to the value of the service ID being modified (e.g. '000001') | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | '01' | Rel-6 |
| - MBMS required UE action | Acquire PTM RB info | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - Continue MCCH reading | FALSE | Rel-6 |
| MBMS re- acquire MCCH | Not Present | Rel-6 |
| MBMS dynamic persistence level | Not Present | Rel-6 |
| End of modified MCCH information | Not Present | Rel-6 |
| MBMS number of neighbour cells | 0 | Rel-6 |
| MBMS all unmodified p-t-m services | Not Present | Rel-6 |
| MBMS p-t-m activation time | Not Present | Rel-6 |

Contents of MBMS NEIGHBOURING CELL P-T-M RB INFORMATION message: UM

| Information Element | Value/remark | Version |
|---|---|---------|
| Message type | | Rel-6 |
| Neighbouring cell identity | The intra-frequency cell id of the cell of the MBMS neighbouring cell referred to in the test procedure, obtained from the IE 'Intra-frequency Cell Info list' in SIB 11. | Rel-6 |
| Neighbouring cell's S-CCPCH list | 1 entry in the list | Rel-6 |
| - Secondary CCPCH info | Refers to the Physical channel identity being used for the service under test in the common RB info of the current cell | Rel-6 |
| - Secondary CCPCH Power Offset Difference | Not Present | Rel-6 |
| - L1 combining | Not Present | Rel-6 |
| - CHOICE L23 configuration | SameAs Current cell | Rel-6 |
| - Current cell's S-CCPCH | 1 (same as the S-CCPCH identity in the MBMS CURRENT CELL P-T-M RB INFORMATION) | Rel-6 |
| - MSCH configuration information | Not Present | Rel-6 |

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| Message type | | Rel-6 |
| Unmodified services list | 12 services by default. See NOTE 1. | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000001' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000002' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000003' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000004' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000005' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000006' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000007' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000008' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000009' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000A' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000B' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000C' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |

| Information Element | Condition | Value/remark | Explanation |
|---------------------------|-----------|-----------------------|--|
| - MBMS Session ID | A1 | Not Present | Condition used when the session is currently not being transmitted |
| - MBMS required UE action | | 'None' | |
| - MBMS Session ID | A2 | '01' | Condition used when the session is currently ongoing |
| - MBMS required UE action | | 'Acquire PTM RB info' | |

NOTE 1: Any service ID which is included in MBMS MODIFIED SERVICES INFORMATION in the current modification period shall be Not Present in the list of services in this message.

Contents of MEASUREMENT CONTROL message: AM

| Information Element | Value/remark |
|---|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an unused integer between 0 to 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Measurement Identity | 1 |
| Measurement Command | Setup |
| Measurement Reporting Mode | |
| - Measurement Report Transfer Mode | Acknowledged mode RLC |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting |
| Additional measurement list | Not Present |
| CHOICE Measurement type | Intra-frequency measurement |
| - Intra-frequency measurement | |
| - Intra-frequency cell info list | |
| - CHOICE intra-frequency cell removal | Not present |
| - New intra-frequency cell | |
| - Intra-frequency cell-id | 1 |
| - Cell info | |
| - Cell individual offset | 0 (0dB) |
| - Reference time difference to cell | Not Present |
| - Read SFN number | FALSE |
| - CHOICE mode | FDD |

| Information Element | Value/remark |
|--|--|
| - Primary CPICH info | Different from the Default setting in clause 6.1 (FDD) |
| - Primary scrambling code | Not Present |
| - Primary CPICH Tx power | FALSE |
| - TX Diversity indicator | Not present |
| - Cells for measurement | Not present |
| - CSG Intrafrequency cell info | Not present |
| - Intra-frequency SI Acquisition | Not present |
| - Intra-frequency measurement quantity | Not Present |
| - Intra-frequency reporting quantity | |
| - Reporting quantities for active set cells | |
| - Cell synchronization information reporting indicator | FALSE |
| - Cell Identity reporting indicator | TRUE |
| - CPICH Ec/N0 reporting indicator | FALSE |
| - CPICH RSCP reporting indicator | TRUE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for monitored set cells | |
| - Cell synchronization information reporting indicator | FALSE |
| - Cell Identity reporting indicator | TRUE |
| - CPICH Ec/N0 reporting indicator | FALSE |
| - CPICH RSCP reporting indicator | TRUE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for detected set cells | Not Present |
| - Reporting cell status | |
| - CHOICE reported cell | Report cell within active set and/or monitored cells on used frequency |
| - Maximum number of reported cells | 2 |
| - Measurement validity | Not Present |
| - CHOICE report criteria | Periodic reporting criteria |
| - Amount of reporting | Infinity |
| - Reporting interval | 64 s |
| DPCH Compressed mode status info | Not Present |

Contents of MEASUREMENT CONTROL FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | See the test content |

Contents of MEASUREMENT REPORT message: AM

| Information Element | Value/remark | Version |
|------------------------------------|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Measurement identity | 1 | |
| Measured Results | | |
| - Intra-frequency measured results | | |
| - Cell measured results | | |
| - Cell Identity | Not present | |
| - Cell synchronization information | Checked that this IE is absent | |

| | | |
|--|---|-------|
| - Primary CPICH info - Primary scrambling code - CPICH Ec/NO - CPICH RSCP - Pathloss Measured results on RACH Additional measured results Event results | Different from the Default setting in clause 6.1 (FDD) Checked that this IE is absent Checked that this IE is present Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent | |
| GSM OTD reference cell | Checked that this IE is absent | Rel-4 |
| CSG Proximity Indication | FFS | REL-9 |
| Inter-RAT cell info indication | Checked that this IE is absent | Rel-5 |

Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element | Value/remark |
|--|--|
| Message Type Paging record list - Paging record - CHOICE Used paging identity - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info ETWS information | CN identity Terminating Conversational Call CS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present Not Present |

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element | Value/remark |
|--|---|
| Message Type Paging record list - Paging record - CHOICE Used paging identity - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info ETWS information | CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present Not Present |

Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element | Value/remark |
|--|---|
| Message Type Paging record list - Paging record - CHOICE Used paging identity - Paging cause - CN domain identity - CHOICE UE identity - P-TMSI BCCH modification info ETWS information | CN identity Terminating Interactive Call PS domain Use P-TMSI allocated by SS at initial attach. Not Present Not Present |

Contents of PAGING TYPE 1 message: TM (SMS in CS)

| Information Element | Value/remark |
|--|---|
| Message Type Paging record list - Paging record - CHOICE Used paging identity - Paging cause - CN domain identity - CHOICE UE identity | CN identity Terminating Low Priority Signalling CS domain |

| | |
|------------------------|--|
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the TEST USIM card |
| BCCH modification info | Not Present |
| ETWS information | Not Present |

Contents of PAGING TYPE 1 message: TM (SMS in PS)

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| Paging record list | |
| - Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Low Priority Signalling |
| - CN domain identity | PS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the TEST USIM card |
| BCCH modification info | Not Present |
| ETWS information | Not Present |

Contents of PAGING TYPE 2 message: AM (Speech in CS)

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Paging cause | Terminating Conversational Call |
| CN domain identity | CS domain |
| Paging record type identifier | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message. |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

| Information Element | Condition | Value/remark | Version |
|--------------------------------|---|--|--------------------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | | | |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | |
| Integrity protection mode info | | Not Present | |
| Ciphering mode info | | Not Present | |
| Activation time | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | |
| Activation time | A4, A5, A6, A7, A8, A9, A10 | Not Present | |
| Delay restriction flag | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 |
| New U-RNTI | | Not Present | |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | R99 and Rel-4 only |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 |
| New Primary E-RNTI | | Not Present | Rel-6 |
| New Secondary E-RNTI | | Not Present | Rel-6 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | |

| Information Element | Condition | Value/remark | Version |
|--|---|---|--------------------|
| RRC State indicator | A5, A6 | CELL_FACH | |
| RRC State indicator | A7, A8 | URA_PCH | |
| RRC State indicator | A9, A10 | CELL_PCH | |
| UE Mobility State Indicator | | Not Present | Rel-7 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | |
| CN information info | | Not Present | |
| URA identity | | Not Present | |
| RNC support for change of UE capability | | Not Present | Rel-7 |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 |
| Downlink counter synchronization info | | Not Present | |
| Frequency info | A1, A2, A3, A4, A5 | | |
| - UARFCN uplink (Nu) | | Not present | |
| - UARFCN downlink (Nd) | | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] | |
| Frequency info | A6, A7, A8, A9, A10 | Reference to clause 5.1 Test frequencies | |
| DTX-DRX timing information | | Not Present | Rel-7 |
| DTX-DRX Information | | Not Present | Rel-7 |
| HS-SCCH less Information | | Not Present | Rel-7 |
| MIMO parameters | | Not Present | Rel-7 |
| HARQ Info | | Not Present | Rel-7 |
| Maximum allowed UL TX power | | 33dBm | |
| CHOICE <i>channel requirement</i> | A5, A6, A7, A8, A9, A10 | Not Present | |
| CHOICE <i>channel requirement</i> | A1, A2, A3, A4 | Uplink DPCH info | |
| - Uplink DPCH power control info | | | |
| - DPCH power offset | | -40 (-80dB) | |
| - PC Preamble | | 1 frame | |
| - SRB delay | | 7 frames | |
| - Power Control Algorithm | | Algorithm1 | |
| - TPC step size | | 0 (1dB) | |
| - Δ_{ACK} | | Not Present | Rel-5 |
| - Δ_{NACK} | | Not Present | Rel-5 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 |
| - HARQ_preamble_mode | | 0 | Rel-6 |
| - Scrambling code type | | Long | |
| - Scrambling code number | | 0 (0 to 16777215) | |
| - Number of DPDCH | | Not Present(1) | |
| - spreading factor | | Reference to clause 6.10 Parameter Set | |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | |
| - Number of FBI bit | | Reference to clause 6.10 Parameter Set | |
| - Number of TPC bits | | Not Present | Rel-7 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | |
| E-DCH Info | | Not Present | Rel-6 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | FDD | |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 |
| Downlink information common for all radio links | A1, A2, A3 | | |
| - Downlink DPCH info common for all RL | | | |
| - Timing indicator | | Maintain | |
| - CFN-targetSFN frame offset | | Not Present | |
| - Downlink DPCH power control information | | | |
| - DPC mode | | 0 (single) | |
| - CHOICE mode | | FDD | |

| Information Element | Condition | Value/remark | Version |
|---|-------------------------|--|-----------------------------|
| <ul style="list-style-type: none"> - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction | | 0 | |
| information | | Not Present | |
| <ul style="list-style-type: none"> - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | |
| <ul style="list-style-type: none"> - Default DPCH Offset Value - MAC-hs reset indicator | | Not Present Not Present | R99 and Rel-4 only |
| Downlink information common for all radio links | A4 | | Rel-5 |
| <ul style="list-style-type: none"> - Downlink DPCH info common for all RL | | Initialize | |
| information | | Not Present | |
| <ul style="list-style-type: none"> - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction | | 0 (single) FDD 0 | |
| information | | Not Present | |
| <ul style="list-style-type: none"> - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | |
| <ul style="list-style-type: none"> - Default DPCH Offset Value - MAC-hs reset indicator | | Arbitrary set to value 0..306688 by step of 512 Not Present Not Present | R99 and Rel-4 only Rel-5 |
| Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 | | |
| Downlink information for each radio links | A1, A2,A3 | | |
| <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code | | FDD Ref. to the Default setting in clause 6.1 (FDD) | |
| <ul style="list-style-type: none"> - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only |
| <ul style="list-style-type: none"> - PDSCH code mapping | | Not Present | R99 and Rel-4 only |
| <ul style="list-style-type: none"> - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 |
| <ul style="list-style-type: none"> - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation | | FALSE FDD Primary CPICH may be used | Rel-6 |
| <ul style="list-style-type: none"> - DPCH frame offset | | Set to value : Default DPCH Offset Value (as currently stored in SS) mod 38400 | |
| <ul style="list-style-type: none"> - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change | | Not Present 5 Reference to clause 6.10 Parameter Set 0 Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---|
| <ul style="list-style-type: none"> - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH | | including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present Not Present Not Present Not Present Not Present | R99 and Rel-4 only Rel-6 Rel-6 Rel-6 R99 and Rel-4 only |
| Downlink information for each radio links <ul style="list-style-type: none"> - Choice mode <ul style="list-style-type: none"> - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator <ul style="list-style-type: none"> - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change | A4 | FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE FDD Primary CPICH may be used Set to value : Default DPCH Offset Value mod 38 400 Not Present 5 Reference to clause 6.10 Parameter Set 0 Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present Not Present Not Present | R99 and Rel-4 only R99 and Rel-4 only Rel-5 Rel-6 |
| <ul style="list-style-type: none"> - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH - Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode <ul style="list-style-type: none"> - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator | A5 | FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE | R99 and Rel-4 only Rel-6 Rel-6 Rel-6 R99 and Rel-4 only R99 and Rel-4 only R99 and Rel-4 only Rel-5 Rel-6 |

| Information Element | Condition | Value/remark | Version |
|--|---|---|---|
| - Downlink DPCH info for each RL - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH Information for FACH | | Not Present Not Present Not Present Not Present Not Present | Rel-6 Rel-6 Rel-6 R99 and Rel-4 only |
| - Downlink information for each radio link | A6, A7, A8, A9, A10 | Not Present | |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked |
| CHOICE mode | FDD |
| Deferred measurement control reading | Not present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of RADIO BEARER SETUP message: AM or UM

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|---|--|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A23, A24, A28a, A25, A25a, A25b, A26, A27, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-003 RBS-004 RBS-005 RBS-006 RBS-007 RBS-008 RBS-009 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS-010 |
| Integrity check info - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. | | RBS-011 RBS-012 |
| - RRC message sequence number | | | | RBS-013 |
| Integrity protection mode info | | Not Present | | RBS-014 |
| Ciphering mode info | | Not Present | | RBS-015 |
| Sr-vcc-Info | | Not Present | | |
| Activation time | A1, A2, A3, A11, A9, A12, A13, A14, A15, A16, A17, A17a, A17b, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | (256+CFN-(CFN MOD 8 + 8)) MOD 256 | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-016 RBS-017 RBS-018 RBS-019 RBS-020 RBS-021 RBS-021b |
| Activation time | A4, A5, A6, A7, A8, A10, A24, A29, A30 | Not Present | Rel-5 Rel-8 | RBS-022 RBS-023 RBS-024 |
| New U-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a | Not Present | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 | RBS-026 RBS-027 RBS-028 RBS-029 RBS-030 |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------|--|-----------------------|---|---|
| | , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-8 Rel-9 Rel-10 Rel-11 | RBS-031 RBS-032 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-033 RBS-034 RBS-035 RBS-036 RBS-037 RBS-038 RBS-039 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBS-040 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | R99 and Rel-4 only | RBS-041 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | Rel-5 | RBS-042 |
| New H-RNTI | A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A25c, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | '1010 1010 1010 1010' | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-045 RBS-046 RBS-047 RBS-048 RBS-049 RBS-049b |
| New Primary E-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A17, A17a, A18, A24, A25a, A28 | Not Present | Rel-6 Rel-7 Rel-8 | RBS-050 RBS-051 RBS-052 |
| New Primary E-RNTI | A12, A13, A14, A15, A16, A17b, A17c, A17d, A17e, A17f, A19, A19a, A19b, A20, A21, A22, A23, A28a, A25, A25b, A26, A27, A27a, A29, A30 | '1010 1010 1010 1010' | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 | RBS-054 RBS-055 RBS-056 RBS-057 |

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|--|--------------|---|---|
| | A25c, A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-9 Rel-10 Rel-11 | RBS-057b |
| New Secondary E-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24 , A23, A28a , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 , A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-058 RBS-059 RBS-060 RBS-061 RBS-062 |
| RRC State indicator | A1, A2, A3, A4, A7, A8, A11 , A9, A10 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22 , A23, A28a , A25, A25a, A25b, A26, A27, A27a, A28, A30 , A25c, A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | CELL_DCH | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-063 RBS-064 RBS-065 RBS-066 RBS-067 RBS-068 RBS-069 |
| RRC State indicator | A5, A6, A24 A29 | CELL_FACH | Rel-7 | RBS-070 RBS-071 RBS-072 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24 , A23, A28a , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 , A25c, A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-073 RBS-074 RBS-075 RBS-076 RBS-077 RBS-078 RBS-079 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|---------|
| CN information info | | Not Present | | RBS-080 |
| URA identity | | Not Present | | RBS-081 |
| RNC support for change of UE capability | | Not Present | Rel-7 | RBS-082 |
| CHOICE Specification mode | | Complete specification | Rel-6 | RBS-083 |
| - Signalling RB information to setup | | Not Present | | RBS-084 |
| - RAB information for setup | A1, A7 | | | RBS-085 |
| - RAB info | | | | RBS-086 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-087 |
| - CN domain identity | | CS domain | | RBS-088 |
| - NAS Synchronization Indicator | | Not Present | | RBS-089 |
| - Re-establishment timer | | useT314 | | RBS-090 |
| - RB information to setup | | | | RBS-091 |
| - RB identity | | 10 | | RBS-092 |
| - PDCP info | | Not Present | | RBS-093 |
| - CHOICE RLC info type | | RLC info | | RBS-094 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS-095 |
| - Transmission RLC discard | | Not Present | | RBS-096 |
| - Segmentation indication | | FALSE | | RBS-097 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS-098 |
| - Segmentation indication | | FALSE | | RBS-099 |
| - RB mapping info | | | | RBS-100 |
| - Information for each multiplexing option | | | | RBS-101 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-102 |
| - Number of uplink RLC logical channels | | 1 | | RBS-103 |
| - Uplink transport channel type | | DCH | | RBS-104 |
| - UL Transport channel identity | | 1 | | RBS-105 |
| - Logical channel identity | | Not Present | | RBS-106 |
| - CHOICE RLC size list | | Configured | | RBS-107 |
| - MAC logical channel priority | | 7 | | RBS-108 |
| - Downlink RLC logical channel info | | | | RBS-109 |
| - Number of downlink RLC logical channels | | 1 | | RBS-110 |
| - Downlink transport channel type | | DCH | | RBS-111 |
| - DL DCH Transport channel identity | | 6 | | RBS-112 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-113 |
| - Logical channel identity | | Not Present | | RBS-114 |
| - RAB information for setup | A2, A8 | | | RBS-115 |
| - RAB info | | | | RBS-116 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-117 |
| - CN domain identity | | CS domain | | RBS-118 |
| - NAS Synchronization Indicator | | Not Present | | RBS-119 |
| - Re-establishment timer | | useT314 | | RBS-120 |
| - RB information to setup | | | | RBS-121 |
| - RB identity | | 10 | | RBS-122 |
| - PDCP info | | Not Present | | RBS-123 |
| - CHOICE RLC info type | | RLC info | | RBS-124 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS-125 |
| - Transmission RLC discard | | Not Present | | RBS-126 |
| - Segmentation indication | | FALSE | | RBS-127 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS-128 |
| - Segmentation indication | | FALSE | | RBS-129 |
| - RB mapping info | | | | RBS-130 |
| - Information for each multiplexing | | | | RBS-131 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--------------|---------|---------|
| option | | | | |
| - RLC logical channel mapping indicator | | Not Present | | RBS-132 |
| - Number of uplink RLC logical channels | | 1 | | RBS-133 |
| - Uplink transport channel type | | DCH | | RBS-134 |
| - UL Transport channel identity | | 1 | | RBS-135 |
| - Logical channel identity | | Not Present | | RBS-136 |
| - CHOICE RLC size list | | Configured | | RBS-137 |
| - MAC logical channel priority | | 6 | | RBS-138 |
| - Downlink RLC logical channel | | | | RBS-139 |
| info | | | | |
| - Number of downlink RLC logical channels | | 1 | | RBS-140 |
| - Downlink transport channel type | | DCH | | RBS-141 |
| - DL DCH Transport channel identity | | 6 | | RBS-142 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-143 |
| - Logical channel identity | | Not Present | | RBS-144 |
| - RB identity | | 11 | | RBS-145 |
| - PDCP info | | Not Present | | RBS-146 |
| - CHOICE RLC info type | | RLC info | | RBS-147 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS-148 |
| - Transmission RLC discard | | Not Present | | RBS-149 |
| - Segmentation indication | | FALSE | | RBS-150 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS-151 |
| - Segmentation indication | | FALSE | | RBS-152 |
| - RB mapping info | | | | RBS-153 |
| - Information for each multiplexing | | | | RBS-154 |
| option | | | | |
| - RLC logical channel mapping indicator | | Not Present | | RBS-155 |
| - Number of uplink RLC logical channels | | 1 | | RBS-156 |
| - Uplink transport channel type | | DCH | | RBS-157 |
| - UL Transport channel identity | | 2 | | RBS-158 |
| - Logical channel identity | | Not Present | | RBS-159 |
| - CHOICE RLC size list | | Configured | | RBS-160 |
| - MAC logical channel priority | | 6 | | RBS-161 |
| - Downlink RLC logical channel | | | | RBS-162 |
| info | | | | |
| - Number of downlink RLC logical channels | | 1 | | RBS-163 |
| - Downlink transport channel type | | DCH | | RBS-164 |
| - DL DCH Transport channel identity | | 7 | | RBS-165 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-166 |
| - Logical channel identity | | Not Present | | RBS-167 |
| - RB identity | | 12 | | RBS-168 |
| - PDCP info | | Not Present | | RBS-169 |
| - CHOICE RLC info type | | RLC info | | RBS-170 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS-171 |
| - Transmission RLC discard | | Not Present | | RBS-172 |
| - Segmentation indication | | FALSE | | RBS-173 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS-174 |
| - Segmentation indication | | FALSE | | RBS-175 |
| - RB mapping info | | | | RBS-176 |
| - Information for each multiplexing | | | | RBS-177 |
| option | | | | |
| - RLC logical channel mapping indicator | | Not Present | | RBS-178 |
| - Number of uplink RLC logical channels | | 1 | | RBS-179 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|--|---------|---------|
| <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity | | DCH | | RBS-180 |
| | | 3 | | RBS-181 |
| | | Not Present | | RBS-182 |
| | | Configured | | RBS-183 |
| | | 6 | | RBS-184 |
| | | | | RBS-185 |
| | | 1 | | RBS-186 |
| | | DCH | | RBS-187 |
| | | 8 | | RBS-188 |
| <ul style="list-style-type: none"> - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU Size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical | A3, A4, A5, A6 | (AM DTCH for PS domain) | Rel-5 | RBS-191 |
| | | 0000 0101B | | RBS-192 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-193 |
| | | PS domain | | RBS-194 |
| | | Not Present | | RBS-195 |
| | | useT315 | | RBS-196 |
| | | 20 | | RBS-197 |
| | | FALSE | | RBS-198 |
| | | FALSE | | RBS-199 |
| | | FALSE | | RBS-200 |
| | | Not present | | RBS-201 |
| | | Absent | | RBS-202 |
| | | Not present | | RBS-203 |
| | | RLC info | | RBS-204 |
| | | AM RLC | | RBS-205 |
| | | | | RBS-206 |
| | | No Discard | | RBS-207 |
| | | 15 | | RBS-208 |
| | | 128 | | RBS-209 |
| | | 500 | | RBS-210 |
| 4 | RBS-211 | | | |
| | RBS-212 | | | |
| 200 | RBS-213 | | | |
| 200 | RBS-214 | | | |
| Not Present | RBS-215 | | | |
| 1 | RBS-216 | | | |
| TRUE | RBS-217 | | | |
| TRUE | RBS-218 | | | |
| 99 | RBS-219 | | | |
| Not Present | RBS-220 | | | |
| AM RLC | RBS-221 | | | |
| Reference to clause 6 Parameter Set | RBS-222 | | | |
| TRUE | RBS-223 | | | |
| 128 | RBS-224 | | | |
| | RBS-225 | | | |
| 200 | RBS-226 | | | |
| Not Present | RBS-227 | | | |
| TRUE | RBS-228 | | | |
| Not Present | RBS-229 | | | |
| | RBS-230 | | | |
| 2 RBmuxOptions | RBS-231 | | | |
| Not Present | RBS-232 | | | |
| 1 | RBS-233 | | | |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------------------|-----------|--|---------|---------|
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS-234 |
| - UL Transport channel identity | | 1 | | RBS-235 |
| - Logical channel identity | | Not Present | | RBS-236 |
| - CHOICE RLC size list | | Configured | | RBS-237 |
| - MAC logical channel priority | | 8 | | RBS-238 |
| - Downlink RLC logical channel | | | | RBS-239 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-240 |
| logical channels | | | | |
| - Downlink transport channel | | DCH | | RBS-241 |
| type | | | | |
| - DL DCH Transport channel | | 6 | | RBS-242 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS-243 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS-244 |
| - RLC logical channel mapping | | Not Present | | RBS-245 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-246 |
| channels | | | | |
| - Uplink transport channel type | | RACH | | RBS-247 |
| - UL Transport channel identity | | Not Present | | RBS-248 |
| - Logical channel identity | | 7 | | RBS-249 |
| - CHOICE RLC size list | | Explicit list | | RBS-250 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS-251 |
| - MAC logical channel priority | | 8 | | RBS-252 |
| - Downlink RLC logical channel | | | | RBS-253 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-254 |
| logical channels | | | | |
| - Downlink transport channel | | FACH | | RBS-255 |
| type | | | | |
| - DL DCH Transport channel | | Not Present | | RBS-256 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS-257 |
| identity | | | | |
| - Logical channel identity | | 7 | | RBS-258 |
| - RAB information for setup | A9 | | Rel-5 | RBS-259 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-260 |
| - RAB identity | | 0000 0101B | | RBS-261 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-262 |
| - NAS Synchronization Indicator | | Not Present | | RBS-263 |
| - Re-establishment timer | | useT315 | | RBS-264 |
| - RB information to setup | | | | RBS-265 |
| - RB identity | | 25 | | RBS-266 |
| - PDCP info | | | | RBS-267 |
| - Support for lossless SRNS | | FALSE | | RBS-268 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS-269 |
| - PDCP PDU header | | Absent | | RBS-270 |
| - Header compression | | Not present | | RBS-271 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-272 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-273 |
| - Transmission RLC discard | | | | RBS-274 |
| - CHOICE SDU discard mode | | No Discard | | RBS-275 |
| - MAX_DAT | | 15 | | RBS-276 |
| - Transmission window size | | 128 | | RBS-277 |
| - Timer_RST | | 500 | | RBS-278 |
| - Max_RST | | 4 | | RBS-279 |
| - Polling info | | | | RBS-280 |
| - Timer_poll_prohibit | | 100 | | RBS-281 |
| - Timer_poll | | 100 | | RBS-282 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|---------|
| - Poll_PDU | | Not Present | | RBS-283 |
| - Poll_SDU | | 1 | | RBS-284 |
| - Last transmission PDU poll | | TRUE | | RBS-285 |
| - Last retransmission PDU poll | | TRUE | | RBS-286 |
| - Poll_Windows | | 99 | | RBS-287 |
| - Timer_poll_periodic | | Not Present | | RBS-288 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-289 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-290 |
| - In-sequence delivery | | TRUE | | RBS-291 |
| - Receiving window size | | 768 | | RBS-292 |
| - Downlink RLC status info | | | | RBS-293 |
| - Timer_status_prohibit | | 100 | | RBS-294 |
| - Timer_EPC | | Not Present | | RBS-295 |
| - Missing PDU indicator | | TRUE | | RBS-296 |
| - Timer_STATUS_periodic | | Not Present | | RBS-297 |
| - One sided RLC re-establishment | | FALSE | | RBS-298 |
| - RB mapping info | | | | RBS-299 |
| - Information for each multiplexing option | | 3 RBmuxOptions | | RBS-300 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-301 |
| - Number of uplink RLC logical channels | | 1 | | RBS-302 |
| - Uplink transport channel type | | DCH | | RBS-303 |
| - UL Transport channel identity | | 1 | | RBS-304 |
| - Logical channel identity | | Not Present | | RBS-305 |
| - CHOICE RLC size list | | Configured | | RBS-306 |
| - MAC logical channel priority | | 8 | | RBS-307 |
| - Downlink RLC logical channel info | | | | RBS-308 |
| - Number of downlink RLC logical channels | | 1 | | RBS-309 |
| - Downlink transport channel type | | DCH | | RBS-310 |
| - DL DCH Transport channel identity | | 6 | | RBS-311 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-312 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RBS-313 |
| - Logical channel identity | | Not Present | | RBS-314 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-315 |
| - Number of uplink RLC logical channels | | 1 | | RBS-316 |
| - Uplink transport channel type | | DCH | | RBS-317 |
| - UL Transport channel identity | | 1 | | RBS-318 |
| - Logical channel identity | | Not Present | | RBS-319 |
| - CHOICE RLC size list | | Configured | | RBS-320 |
| - MAC logical channel priority | | 8 | | RBS-321 |
| - Downlink RLC logical channel info | | | | RBS-322 |
| - Number of downlink RLC logical channels | | 1 | | RBS-323 |
| - Downlink transport channel type | | HS-DSCH | | RBS-324 |
| - DL DCH Transport channel identity | | Not Present | | RBS-325 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-326 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS-327 |
| - Logical channel identity | | Not Present | | RBS-328 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-329 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|---------|
| - Number of uplink RLC logical channels | | 1 | | RBS-330 |
| - Uplink transport channel type | | RACH | | RBS-331 |
| - UL Transport channel identity | | Not Present | | RBS-332 |
| - Logical channel identity | | 7 | | RBS-333 |
| - CHOICE RLC size list | | Explicit list | | RBS-334 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS-335 |
| - MAC logical channel priority | | 8 | | RBS-336 |
| - Downlink RLC logical channel info | | | | RBS-337 |
| - Number of downlink RLC logical channels | | 1 | | RBS-338 |
| - Downlink transport channel type | | FACH | | RBS-339 |
| - DL DCH Transport channel identity | | Not Present | | RBS-340 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-341 |
| - Logical channel identity | | 7 | | RBS-342 |
| - RAB information for setup | A10 | (high-speed AM DTCH for PS domain) | Rel-5 | RBS-343 |
| - RAB info | | 0000 0101B | | RBS-344 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-345 |
| - CN domain identity | | PS domain | | RBS-346 |
| - NAS Synchronization Indicator | | Not Present | | RBS-347 |
| - Re-establishment timer | | useT315 | | RBS-348 |
| - RB information to setup | | | | RBS-349 |
| - RB identity | | 25 | | RBS-350 |
| - PDCP info | | FALSE | | RBS-351 |
| - Support for lossless SRNS relocation | | | | RBS-352 |
| - Max PDCP SN window size | | Not present | | RBS-353 |
| - PDCP PDU header | | Absent | | RBS-354 |
| - Header compression | | Not present | | RBS-355 |
| - CHOICE RLC info type | | RLC info | | RBS-356 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-357 |
| - Transmission RLC discard | | | | RBS-358 |
| - CHOICE SDU discard mode | | No Discard | | RBS-359 |
| - MAX_DAT | | 15 | | RBS-360 |
| - Transmission window size | | 128 | | RBS-361 |
| - Timer_RST | | 500 | | RBS-362 |
| - Max_RST | | 4 | | RBS-363 |
| - Polling info | | | | RBS-364 |
| - Timer_poll_prohibit | | 100 | | RBS-365 |
| - Timer_poll | | 100 | | RBS-366 |
| - Poll_PDU | | Not Present | | RBS-367 |
| - Poll_SDU | | 1 | | RBS-368 |
| - Last transmission PDU poll | | TRUE | | RBS-369 |
| - Last retransmission PDU poll | | TRUE | | RBS-370 |
| - Poll_Windows | | 99 | | RBS-371 |
| - Timer_poll_periodic | | Not Present | | RBS-372 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-373 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-374 |
| - In-sequence delivery | | TRUE | | RBS-375 |
| - Receiving window size | | 768 | | RBS-376 |
| - Downlink RLC status info | | | | RBS-377 |
| - Timer_status_prohibit | | 100 | | RBS-378 |
| - Timer_EPC | | Not Present | | RBS-379 |
| - Missing PDU indicator | | TRUE | | RBS-380 |
| - Timer_STATUS_periodic | | Not Present | | RBS-381 |
| - One sided RLC re-establishment | | FALSE | | RBS-382 |
| - RB mapping info | | | | RBS-383 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|---------|
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-384 |
| - RLC logical channel mapping indicator | | Not present | | RBS-385 |
| - Number of uplink RLC logical channels | | 1 | | RBS-386 |
| - Uplink transport channel type | | DCH | | RBS-387 |
| - UL Transport channel identity | | 1 | | RBS-388 |
| - Logical channel identity | | Not Present | | RBS-389 |
| - CHOICE RLC size list | | Configured | | RBS-390 |
| - MAC logical channel priority | | 8 | | RBS-391 |
| - Downlink RLC logical channel info | | | | RBS-392 |
| - Number of downlink RLC logical channels | | 1 | | RBS-393 |
| - Downlink transport channel type | | HS-DSCH | | RBS-394 |
| - DL DCH Transport channel identity | | Not present | | RBS-395 |
| - DL DSCH Transport channel identity | | Not present | | RBS-396 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS-397 |
| - Logical channel identity | | Not Present | | RBS-398 |
| - RAB information for setup | A11 | | | RBS-399 |
| - RAB info | | (AM DTCH for PS domain) | | RBS-400 |
| - RAB identity | | 0000 0101B | | RBS-401 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-402 |
| - NAS Synchronization Indicator | | Not Present | | RBS-403 |
| - Re-establishment timer | | useT315 | | RBS-404 |
| - RB information to setup | | | | RBS-405 |
| - RB identity | | 20 | | RBS-406 |
| - PDCP info | | | | RBS-407 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-408 |
| - Max PDCP SN window size | | Not present | | RBS-409 |
| - PDCP PDU header | | Absent | | RBS-410 |
| - Header compression information | | Not present | | RBS-411 |
| - CHOICE RLC info type | | RLC info | | RBS-412 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-413 |
| - Transmission RLC discard | | | | RBS-414 |
| - CHOICE SDU discard mode | | No Discard | | RBS-415 |
| - MAX_DAT | | 15 | | RBS-416 |
| - Transmission window size | | 128 | | RBS-417 |
| - Timer_RST | | 500 | | RBS-418 |
| - Max_RST | | 4 | | RBS-419 |
| - Polling info | | | | RBS-420 |
| - Timer_poll_prohibit | | 200 | | RBS-421 |
| - Timer_poll | | 200 | | RBS-422 |
| - Poll_PDU | | Not Present | | RBS-423 |
| - Poll_SDU | | 1 | | RBS-424 |
| - Last transmission PDU poll | | TRUE | | RBS-425 |
| - Last retransmission PDU poll | | TRUE | | RBS-426 |
| - Poll_Windows | | 99 | | RBS-427 |
| - Timer_poll_periodic | | Not Present | | RBS-428 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-429 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | Rel-5 | RBS-430 |
| - In-sequence delivery | | TRUE | | RBS-431 |
| - Receiving window size | | 128 | | RBS-432 |
| - Downlink RLC status info | | | | RBS-433 |
| - Timer_status_prohibit | | 200 | | RBS-434 |
| - Timer_EPC | | Not Present | | RBS-435 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------|--|----------------|---------|
| - Missing PDU indicator | | TRUE | | RBS-436 |
| - Timer_STATUS_periodic | | Not Present | | RBS-437 |
| - RB mapping info | | | | RBS-438 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RBS-439 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-440 |
| - Number of uplink RLC logical channels | | 1 | | RBS-441 |
| - Uplink transport channel type | | DCH | | RBS-442 |
| - UL Transport channel identity | | 4 | | RBS-443 |
| - Logical channel identity | | Not Present | | RBS-444 |
| - CHOICE RLC size list | | Configured | | RBS-445 |
| - MAC logical channel priority | | 8 | | RBS-446 |
| - Downlink RLC logical channel info | | | | RBS-447 |
| - Number of downlink RLC logical channels | | 1 | | RBS-448 |
| - Downlink transport channel type | | DCH | | RBS-449 |
| - DL DCH Transport channel identity | | 9 | | RBS-450 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-451 |
| - Logical channel identity | | Not Present | | RBS-452 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-453 |
| - Number of uplink RLC logical channels | | 1 | | RBS-454 |
| - Uplink transport channel type | | RACH | | RBS-455 |
| - UL Transport channel identity | | Not Present | | RBS-456 |
| - Logical channel identity | | 7 | | RBS-457 |
| - CHOICE RLC size list | | Explicit list | | RBS-458 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS-459 |
| - MAC logical channel priority | | 8 | | RBS-460 |
| - Downlink RLC logical channel info | | | | RBS-461 |
| - Number of downlink RLC logical channels | | 1 | | RBS-462 |
| - Downlink transport channel type | | FACH | | RBS-463 |
| - DL DCH Transport channel identity | | Not Present | | RBS-464 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-465 |
| - Logical channel identity | | 7 | | RBS-466 |
| - RAB information for setup | A12 A19 | | Rel-6 Rel-7 | RBS-467 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-468 |
| - RAB identity | | 0000 0101B | | RBS-469 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-470 |
| - CN domain identity | | PS domain | | RBS-471 |
| - NAS Synchronization Indicator | | Not Present | | RBS-472 |
| - Re-establishment timer | | useT315 | | RBS-473 |
| - RB information to setup | | | | RBS-474 |
| - RB identity | | 25 | | RBS-475 |
| - PDCP info | | | | RBS-476 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-477 |
| - Max PDCP SN window size | | Not present | | RBS-478 |
| - PDCP PDU header | | Absent | | RBS-479 |
| - Header compression information | | Not present | | RBS-480 |
| - CHOICE RLC info type | | RLC info | | RBS-481 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-482 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-------------|-------------------------------------|---------|---------|
| - Transmission RLC discard | | No Discard | | RBS-483 |
| - CHOICE SDU discard mode | | 15 | | RBS-484 |
| - MAX_DAT | | 256 | | RBS-485 |
| - Transmission window size | | 500 | | RBS-486 |
| - Timer_RST | | 4 | | RBS-487 |
| - Max_RST | | 100 | | RBS-488 |
| - Polling info | | 100 | | RBS-489 |
| - Timer_poll_prohibit | | 100 | | RBS-490 |
| - Timer_poll | | Not Present | | RBS-491 |
| - Poll_PDU | | 1 | | RBS-492 |
| - Poll_SDU | | TRUE | | RBS-493 |
| - Last transmission PDU poll | | TRUE | | RBS-494 |
| - Last retransmission PDU poll | | 99 | | RBS-495 |
| - Poll_Windows | | Not Present | | RBS-496 |
| - Timer_poll_periodic | | AM RLC | | RBS-497 |
| - CHOICE Downlink RLC mode | | Reference to clause 6 Parameter Set | | RBS-498 |
| - CHOICE Downlink RLC PDU | | | | RBS-499 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS-500 |
| - Receiving window size | | 768 | | RBS-501 |
| - Downlink RLC status info | | | | RBS-502 |
| - Timer_status_prohibit | | 100 | | RBS-503 |
| - Timer_EPC | | Not Present | | RBS-504 |
| - Missing PDU indicator | | TRUE | | RBS-505 |
| - Timer_STATUS_periodic | | Not Present | | RBS-506 |
| - One sided RLC re- | | FALSE | | RBS-507 |
| establishment | | | | |
| - RB mapping info | | | | RBS-508 |
| - Information for each multiplexing | | 3 RBMuxOptions | | RBS-509 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RBS-510 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-511 |
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS-512 |
| - UL Transport channel identity | | 1 | | RBS-513 |
| - Logical channel identity | | Not Present | | RBS-514 |
| - CHOICE RLC size list | | Configured | | RBS-515 |
| - MAC logical channel priority | | 8 | | RBS-516 |
| - Downlink RLC logical channel | | | | RBS-517 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-518 |
| logical channels | | | | |
| - Downlink transport channel | | DCH | | RBS-519 |
| type | | | | |
| - DL DCH Transport channel | | 6 | | RBS-520 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS-521 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | Not Present | | RBS-522 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS-523 |
| - RLC logical channel mapping | | Not Present | | RBS-524 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-525 |
| channels | | | | |
| - Uplink transport channel type | | E-DCH | | RBS-526 |
| - Logical channel identity | | 7 | | RBS-527 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-528 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-529 |
| - DDI | | 5 | | RBS-530 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-531 |
| - RLC PDU size | | 336 bits | | RBS-532 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-533 |
| - Length indicator size | | 15 bit | | RBS-534 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-535 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-536 |

| Information Element | Condition | Value/remark | Version | Index | | | |
|--|--------------------------------|---|----------------|---|--|--|---------|
| <ul style="list-style-type: none"> - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity | | TRUE | | RBS-537 | | | |
| | | 8 | | RBS-538 | | | |
| | | | | | | | RBS-539 |
| | | 1 | | | | | RBS-540 |
| | | HS-DSCH | | | | | RBS-541 |
| | | Not Present | | | | | RBS-542 |
| | | Not Present | | | | | RBS-543 |
| | | 0 | | | | | RBS-544 |
| | | Not Present | | | | | RBS-545 |
| | | Not Present | | | | | RBS-546 |
| | | 1 | | | | | RBS-547 |
| | | RACH | | | | | RBS-548 |
| | | Not Present | | | | | RBS-549 |
| | | 7 | | | | | RBS-550 |
| | | Explicit list | | | | | RBS-551 |
| | | Reference to clause 6 Parameter Set | | | | | RBS-552 |
| | | 8 | | | | | RBS-553 |
| | | | | | | | RBS-554 |
| | | 1 | | | | | RBS-555 |
| | | FACH | | | | | RBS-556 |
| Not Present | | | | RBS-557 | | | |
| Not Present | | | | RBS-558 | | | |
| <ul style="list-style-type: none"> - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU | A13, A14, A15, A16, A19a, A19b | (high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info AM RLC No Discard 15 256 500 4 100 100 Not Present 1 | Rel-6 Rel-7 | RBS-559 RBS-560 RBS-561 RBS-562 RBS-563 RBS-564 RBS-565 RBS-566 RBS-567 RBS-568 RBS-569 RBS-570 RBS-571 RBS-572 RBS-573 RBS-574 RBS-575 RBS-576 RBS-577 RBS-578 RBS-579 RBS-580 RBS-581 RBS-582 RBS-583 RBS-584 RBS-585 | | | |

| Information Element | Condition | Value/remark | Version | Index | | | |
|--|--------------------------------------|---|---------------------------|---|--|--------------|--|
| <ul style="list-style-type: none"> - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU Size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - One sided RLC re-establishment - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity | <p>MAC-I-FIXED</p> <p>MAC-I-FLEX</p> | <p>TRUE</p> <p>TRUE</p> <p>99</p> <p>Not Present</p> <p>AM RLC</p> <p>Reference to clause 6 Parameter Set</p> | <p>Rel-8</p> <p>Rel-8</p> | <p>RBS-586</p> <p>RBS-587</p> <p>RBS-588</p> <p>RBS-589</p> <p>RBS-590</p> <p>RBS-591</p> | | | |
| | | <p>TRUE</p> <p>768</p> <p>100</p> <p>Not Present</p> <p>TRUE</p> <p>Not Present</p> <p>FALSE</p> <p>1 RBMuxOption</p> <p>Not Present</p> <p>1</p> <p>E-DCH</p> <p>7</p> <p>2</p> <p>Fixed size</p> <p>5</p> <p>1 RLC PDU size</p> <p>336 bits</p> <p>Flexible size</p> <p>- 15 bit</p> <p>See clause 6.10</p> <p>See clause 6.10</p> <p>TRUE</p> <p>8</p> <p>1</p> <p>HS-DSCH</p> <p>Not present</p> <p>Not present</p> <p>0</p> <p>Not Present</p> | | <p>RBS-592</p> <p>RBS-593</p> <p>RBS-594</p> <p>RBS-595</p> <p>RBS-596</p> <p>RBS-597</p> <p>RBS-598</p> <p>RBS-599</p> <p>RBS-600</p> <p>RBS-601</p> <p>RBS-602</p> <p>RBS-603</p> <p>RBS-604</p> <p>RBS-605</p> <p>RBS-606</p> <p>RBS-607</p> <p>RBS-608</p> <p>RBS-609</p> <p>RBS-610</p> <p>RBS-611</p> <p>RBS-612</p> <p>RBS-613</p> <p>RBS-614</p> <p>RBS-615</p> <p>RBS-616</p> <p>RBS-617</p> <p>RBS-618</p> <p>RBS-619</p> <p>RBS-620</p> <p>RBS-621</p> <p>RBS-622</p> <p>RBS-623</p> | | | |
| | | <ul style="list-style-type: none"> - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression | | A15 | <p>(second high-speed AM DTCH for PS domain)</p> <p>0000 0110B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.</p> <p>PS domain</p> <p>Not Present</p> <p>useT315</p> <p>17</p> <p>FALSE</p> <p>Not present</p> <p>Absent</p> <p>Not present</p> | <p>Rel-6</p> | <p>RBS-624</p> <p>RBS-625</p> <p>RBS-626</p> <p>RBS-627</p> <p>RBS-628</p> <p>RBS-629</p> <p>RBS-630</p> <p>RBS-631</p> <p>RBS-632</p> <p>RBS-633</p> <p>RBS-634</p> <p>RBS-635</p> <p>RBS-636</p> |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|---------------|--|----------------|---------|
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-637 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-638 |
| - Transmission RLC discard | | | | RBS-639 |
| - CHOICE SDU discard mode | | No Discard | | RBS-640 |
| - MAX_DAT | | 15 | | RBS-641 |
| - Transmission window size | | 256 | | RBS-642 |
| - Timer_RST | | 500 | | RBS-643 |
| - Max_RST | | 4 | | RBS-644 |
| - Polling info | | | | RBS-645 |
| - Timer_poll_prohibit | | 100 | | RBS-646 |
| - Timer_poll | | 100 | | RBS-647 |
| - Poll_PDU | | Not Present | | RBS-648 |
| - Poll_SDU | | 1 | | RBS-649 |
| - Last transmission PDU poll | | TRUE | | RBS-650 |
| - Last retransmission PDU poll | | TRUE | | RBS-651 |
| - Poll_Windows | | 99 | | RBS-652 |
| - Timer_poll_periodic | | Not Present | | RBS-653 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-654 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS-655 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS-656 |
| - Receiving window size | | 768 | | RBS-657 |
| - Downlink RLC status info | | | | RBS-658 |
| - Timer_status_prohibit | | 100 | | RBS-659 |
| - Timer_EPC | | Not Present | | RBS-660 |
| - Missing PDU indicator | | TRUE | | RBS-661 |
| - Timer_STATUS_periodic | | Not Present | | RBS-662 |
| - One sided RLC re- | | FALSE | | RBS-663 |
| establishment | | | | |
| - RB mapping info | | | | RBS-664 |
| - Information for each multiplexing | | 1 RBMuxOption | | RBS-665 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RBS-666 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-667 |
| channels | | | | |
| - Uplink transport channel type | | E-DCH | | RBS-668 |
| - Logical channel identity | | 8 | | RBS-669 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-670 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-671 |
| - DDI | | 6 | | RBS-672 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-673 |
| - RLC PDU size | | 336 bits | | RBS-674 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-675 |
| - Length indicator size | | - 15 bit | | RBS-676 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-677 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-678 |
| - Include in scheduling info | | TRUE | | RBS-679 |
| - MAC logical channel priority | | 8 | | RBS-680 |
| - Downlink RLC logical channel | | | | RBS-681 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-682 |
| logical channels | | | | |
| - Downlink transport channel | | HS-DSCH | | RBS-683 |
| type | | | | |
| - DL DCH Transport channel | | Not present | | RBS-684 |
| identity | | | | |
| - DL DSCH Transport channel | | Not present | | RBS-685 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | 2 | | RBS-686 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS-687 |
| - RAB information for setup | A16 , A19b | | Rel-6 Rel-7 | RBS-688 |
| - RAB info | | (Conversational UM DTCH for PS domain) | | RBS-689 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|--|---------|---------|
| - RAB identity | | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-690 |
| - CN domain identity | | PS domain | | RBS-691 |
| - NAS Synchronization Indicator | | Not Present | | RBS-692 |
| - Re-establishment timer | | useT314 | | RBS-693 |
| - RB information to setup | | | | RBS-694 |
| - RB identity | | 27 | | RBS-695 |
| - PDCP info | | | | RBS-696 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-697 |
| - Max PDCP SN window size | | Not present | | RBS-698 |
| - PDCP PDU header | | Absent | | RBS-699 |
| - Header compression | | Not present | | RBS-700 |
| - CHOICE RLC info type | | RLC info | | RBS-701 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-702 |
| - Transmission RLC discard | | Not present | | RBS-703 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-704 |
| - DL UM RLC LI size | | 7 | | RBS-705 |
| - DL Reception Window Size | | 32 | | RBS-706 |
| - One sided RLC re-establishment | | FALSE | | RBS-707 |
| - Alternative E-bit interpretation | | Not present | | RBS-708 |
| - RB mapping info | | | | RBS-709 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-710 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-711 |
| - Number of uplink RLC logical channels | | 1 | | RBS-712 |
| - Uplink transport channel type | | E-DCH | | RBS-713 |
| - Logical channel identity | | 9 | | RBS-714 |
| - E-DCH MAC-d flow identity | | 4 | | RBS-715 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-716 |
| - DDI | | 7 | | RBS-717 |
| - RLC PDU size list | | 12 RLC PDU sizes | | RBS-718 |
| - RLC PDU size | | 96 bits | | RBS-719 |
| - RLC PDU size | | 112 bits | | RBS-720 |
| - RLC PDU size | | 144 bits | | RBS-721 |
| - RLC PDU size | | 160 bits | | RBS-722 |
| - RLC PDU size | | 176 bits | | RBS-723 |
| - RLC PDU size | | 192 bits | | RBS-724 |
| - RLC PDU size | | 208 bits | | RBS-725 |
| - RLC PDU size | | 224 bits | | RBS-726 |
| - RLC PDU size | | 288 bits | | RBS-727 |
| - RLC PDU size | | 296 bits | | RBS-728 |
| - RLC PDU size | | 312 bits | | RBS-729 |
| - RLC PDU size | | 336 bits | | RBS-730 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-731 |
| - Length indicator size | | Not present | | RBS-732 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-733 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-734 |
| - Include in scheduling info | | TRUE | | RBS-735 |
| - MAC logical channel priority | | 8 | | RBS-736 |
| - Downlink RLC logical channel info | | | | RBS-737 |
| - Number of downlink RLC logical channels | | 1 | | RBS-738 |
| - Downlink transport channel type | | HS-DSCH | | RBS-739 |
| - DL DCH Transport channel identity | | Not present | | RBS-740 |
| - DL DSCH Transport channel identity | | Not present | | RBS-741 |
| - DL HS-DSCH MAC-d flow | | 3 | | RBS-742 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|------------------------|---|----------------|--|
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS-743 |
| - RAB information for setup | A17, A17a A25a, A28 | | Rel-7 Rel-8 | RBS-744 RBS-745 RBS-746 RBS-747 |
| - RAB info | | (high-speed AM DTCH for PS domain) 0000 0101B | | |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain | | RBS-748 |
| - CN domain identity | | Not Present | | RBS-749 |
| - NAS Synchronization Indicator | | useT315 | | RBS-750 |
| - Re-establishment timer | | | | RBS-751 |
| - RB information to setup | | | | RBS-752 |
| - RB identity | | 25 | | RBS-753 |
| - PDCP info | | | | RBS-754 |
| - Support for lossless SRNS | | FALSE | | |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS-755 |
| - PDCP PDU header | | Absent | | RBS-756 |
| - Header compression | | Not present | | RBS-757 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-758 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-759 |
| - Transmission RLC discard | | | | RBS-760 |
| - CHOICE SDU discard mode | | No Discard | | RBS-761 |
| - MAX_DAT | | 15 | | RBS-762 |
| - Transmission window size | | 128 | | RBS-763 |
| - Timer_RST | | 500 | | RBS-764 |
| - Max_RST | | 4 | | RBS-765 |
| - Polling info | | | | RBS-766 |
| - Timer_poll_prohibit | | 100 | | RBS-767 |
| - Timer_poll | | 100 | | RBS-768 |
| - Poll_PDU | | Not Present | | RBS-769 |
| - Poll_SDU | | 1 | | RBS-770 |
| - Last transmission PDU poll | | TRUE | | RBS-771 |
| - Last retransmission PDU poll | | TRUE | | RBS-772 |
| - Poll_Windows | | 99 | | RBS-773 |
| - Timer_poll_periodic | | Not Present | | RBS-774 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-775 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS-776 |
| Size | | | | |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-777 |
| - In-sequence delivery | | TRUE | | RBS-778 |
| - Receiving window size | | 768 | | RBS-779 |
| - Downlink RLC status info | | | | RBS-780 |
| - Timer_status_prohibit | | 100 | | RBS-781 |
| - Timer_EPC | | Not Present | | RBS-782 |
| - Missing PDU indicator | | TRUE | | RBS-783 |
| - Timer_STATUS_periodic | | Not Present | | RBS-784 |
| - One sided RLC re- | | FALSE | | RBS-785 |
| establishment | | | | |
| - Alternative E-bit interpretation | | Not present | | RBS-786 |
| - Use special value of HE field | | TRUE | | RBS-787 |
| - RB mapping info | | | | RBS-788 |
| - Information for each multiplexing | | 1 RBMuxOption | | RBS-789 |
| option | | | | |
| - RLC logical channel mapping | | Not present | | RBS-790 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-791 |
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS-792 |
| - UL Transport channel identity | | 1 | | RBS-793 |
| - Logical channel identity | | Not Present | | RBS-794 |
| - CHOICE RLC size list | | Configured | | RBS-795 |
| - MAC logical channel priority | | 8 | | RBS-796 |

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|-------------------------------------|--|---------|---------|
| info | | | | RBS-797 |
| - Downlink RLC logical channel | | | | |
| logical channels | | 1 | | RBS-798 |
| - Downlink transport channel | | HS-DSCH | | RBS-799 |
| type | | | | |
| - DL DCH Transport channel | | Not present | | RBS-800 |
| identity | | | | |
| - DL DSCH Transport channel | | Not present | | RBS-801 |
| identity | | | | |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-802 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-803 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-804 |
| - RAB information for setup | A17b, A17c,A17d, A17e, A17f,A28a | | Rel-7 | RBS-805 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-806 |
| - RAB identity | | 0000 0101B | | RBS-807 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-808 |
| - NAS Synchronization Indicator | | Not Present | | RBS-809 |
| - Re-establishment timer | | useT315 | | RBS-810 |
| - RB information to setup | | | | RBS-811 |
| - RB identity | | 25 | | RBS-812 |
| - PDCP info | | | | RBS-813 |
| - Support for lossless SRNS | | FALSE | | RBS-814 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS-815 |
| - PDCP PDU header | | Absent | | RBS-816 |
| - Header compression | | Not present | | RBS-817 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-818 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-819 |
| - Transmission RLC discard | | | | RBS-820 |
| - CHOICE SDU discard mode | | No Discard | | RBS-821 |
| - MAX_DAT | | 15 | | RBS-822 |
| - Transmission window size | | 256 | | RBS-823 |
| - Timer_RST | | 500 | | RBS-824 |
| - Max_RST | | 4 | | RBS-825 |
| - Polling info | | | | RBS-826 |
| - Timer_poll_prohibit | | 100 | | RBS-827 |
| - Timer_poll | | 100 | | RBS-828 |
| - Poll_PDU | | Not Present | | RBS-829 |
| - Poll_SDU | | 1 | | RBS-830 |
| - Last transmission PDU poll | | TRUE | | RBS-831 |
| - Last retransmission PDU poll | | TRUE | | RBS-832 |
| - Poll_Windows | | 99 | | RBS-833 |
| - Timer_poll_periodic | | Not Present | | RBS-834 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-835 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS-836 |
| Size | | | | |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-837 |
| - In-sequence delivery | | TRUE | | RBS-838 |
| - Receiving window size | | 768 | | RBS-839 |
| - Downlink RLC status info | | | | RBS-840 |
| - Timer_status_prohibit | | 100 | | RBS-841 |
| - Timer_EPC | | Not Present | | RBS-842 |
| - Missing PDU indicator | | TRUE | | RBS-843 |
| - Timer_STATUS_periodic | | Not Present | | RBS-844 |
| - One sided RLC re- | | FALSE | | RBS-845 |
| establishment | | | | |
| - Alternative E-bit interpretation | | Not present | | RBS-846 |
| - Use special value of HE field | | TRUE | | RBS-847 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|--|---------|---------|
| - RB mapping info | | 1 RBMuxOption | | RBS-848 |
| - Information for each multiplexing option | | | | RBS-849 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-850 |
| - Number of uplink RLC logical channels | | 1 | | RBS-851 |
| - Uplink transport channel type | | E-DCH | | RBS-852 |
| - Logical channel identity | | 7 | | RBS-853 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-854 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-855 |
| - DDI | | 5 | | RBS-856 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-857 |
| - RLC PDU size | | 336 bits | | RBS-858 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-859 |
| - Length indicator size | | - 15 bit | | RBS-860 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-861 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-862 |
| - Include in scheduling info | | TRUE | | RBS-863 |
| - MAC logical channel priority | | 8 | | RBS-864 |
| - Downlink RLC logical channel info | | | | RBS-865 |
| - Number of downlink RLC logical channels | | 1 | | RBS-866 |
| - Downlink transport channel type | | HS-DSCH | | RBS-867 |
| - DL DCH Transport channel identity | | Not present | | RBS-868 |
| - DL DSCH Transport channel identity | | Not present | | RBS-869 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-870 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-871 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-872 |
| - RAB information for setup | A18 | (high-speed UM DTCH for PS domain) | Rel-7 | RBS-873 |
| - RAB info | | 0000 0101B | | RBS-874 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-875 |
| - CN domain identity | | PS domain | | RBS-876 |
| - NAS Synchronization Indicator | | Not Present | | RBS-877 |
| - Re-establishment timer | | useT315 | | RBS-878 |
| - RB information to setup | | | | RBS-879 |
| - RB identity | | 25 | | RBS-880 |
| - PDCP info | | | | RBS-881 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-882 |
| - Max PDCP SN window size | | Not present | | RBS-883 |
| - PDCP PDU header | | Absent | | RBS-884 |
| - Header compression | | Not present | | RBS-885 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-886 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-887 |
| - Transmission RLC discard | | Not present | | RBS-888 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-889 |
| - DL UM RLC LI size | | 7 | | RBS-890 |
| - DL Reception Window Size | | Not present | | RBS-891 |
| - One sided RLC re-establishment | | FALSE | | RBS-892 |
| - Alternative E-bit interpretation | | TRUE | | RBS-893 |
| - Use special value of HE field | | Not present | | RBS-894 |
| - RB mapping info | | | | RBS-895 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-896 |
| - RLC logical channel mapping indicator | | Not present | | RBS-897 |
| - Number of uplink RLC logical | | 1 | | RBS-898 |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------------------|-----------|--|---------|---------|
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS-899 |
| - UL Transport channel identity | | 1 | | RBS-900 |
| - Logical channel identity | | Not Present | | RBS-901 |
| - CHOICE RLC size list | | Configured | | RBS-902 |
| - MAC logical channel priority | | 8 | | RBS-903 |
| - Downlink RLC logical channel | | | | RBS-904 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-905 |
| logical channels | | | | |
| - Downlink transport channel | | HS-DSCH | | RBS-906 |
| type | | | | |
| - DL DCH Transport channel | | Not present | | RBS-907 |
| identity | | | | |
| - DL DSCH Transport channel | | Not present | | RBS-908 |
| identity | | | | |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-909 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-910 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-911 |
| - RAB information for setup | ,A20, A21 | | Rel-7 | RBS-912 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-913 |
| - RAB identity | | 0000 0101B | | RBS-914 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-915 |
| - NAS Synchronization Indicator | | Not Present | | RBS-916 |
| - Re-establishment timer | | useT315 | | RBS-917 |
| - RB information to setup | | | | RBS-918 |
| - RB identity | | 25 | | RBS-919 |
| - PDCP info | | | | RBS-920 |
| - Support for lossless SRNS | | FALSE | | RBS-921 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS-922 |
| - PDCP PDU header | | Absent | | RBS-923 |
| - Header compression | | Not present | | RBS-924 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-925 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-926 |
| - Transmission RLC discard | | | | RBS-927 |
| - CHOICE SDU discard mode | | No Discard | | RBS-928 |
| - MAX_DAT | | 15 | | RBS-929 |
| - Transmission window size | | 256 | | RBS-930 |
| - Timer_RST | | 500 | | RBS-931 |
| - Max_RST | | 4 | | RBS-932 |
| - Polling info | | | | RBS-933 |
| - Timer_poll_prohibit | | 100 | | RBS-934 |
| - Timer_poll | | 100 | | RBS-935 |
| - Poll_PDU | | Not Present | | RBS-936 |
| - Poll_SDU | | 1 | | RBS-937 |
| - Last transmission PDU poll | | TRUE | | RBS-938 |
| - Last retransmission PDU poll | | TRUE | | RBS-939 |
| - Poll_Windows | | 99 | | RBS-940 |
| - Timer_poll_periodic | | Not Present | | RBS-941 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-942 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS-943 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS-944 |
| - Receiving window size | | 768 | | RBS-945 |
| - Downlink RLC status info | | | | RBS-946 |
| - Timer_status_prohibit | | 100 | | RBS-947 |
| - Timer_EPC | | Not Present | | RBS-948 |
| - Missing PDU indicator | | TRUE | | RBS-949 |
| - Timer_STATUS_periodic | | Not Present | | RBS-950 |
| - One sided RLC re- | | FALSE | | RBS-951 |
| establishment | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|--|---------|----------|
| - RB mapping info | | 1 RBMuxOption | | RBS-952 |
| - Information for each multiplexing option | | | | RBS-953 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-954 |
| - Number of uplink RLC logical channels | | 1 | | RBS-955 |
| - Uplink transport channel type | | E-DCH | | RBS-956 |
| - Logical channel identity | | 7 | | RBS-957 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-958 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-959 |
| - DDI | | 5 | | RBS-960 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-961 |
| - RLC PDU size | | 336 bits | | RBS-962 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-963 |
| - Length indicator size | | - 15 bit | | RBS-964 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-965 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-966 |
| - Include in scheduling info | | TRUE | | RBS-967 |
| - MAC logical channel priority | | 8 | | RBS-968 |
| - Downlink RLC logical channel info | | | | RBS-969 |
| - Number of downlink RLC logical channels | | 1 | | RBS-970 |
| - Downlink transport channel type | | HS-DSCH | | RBS-971 |
| - DL DCH Transport channel identity | | Not present | | RBS-972 |
| - DL DSCH Transport channel identity | | Not present | | RBS-973 |
| - CHOICE DL MAC header type | | MAC-hs | | RBS-974 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS-975 |
| - Logical channel identity | | Not Present | | RBS-976 |
| - RAB information for setup | A21 | (Conversational UM DTCH for PS domain) | Rel-7 | RBS-977 |
| - RAB info | | | | RBS-978 |
| - RAB identity | | 0000 0110B | | RBS-979 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-980 |
| - NAS Synchronization Indicator | | Not Present | | RBS-981 |
| - Re-establishment timer | | useT314 | | RBS-982 |
| - RB information to setup | | | | RBS-983 |
| - RB identity | | 27 | | RBS-984 |
| - PDCP info | | | | RBS-985 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-986 |
| - Max PDCP SN window size | | Not present | | RBS-987 |
| - PDCP PDU header | | Absent | | RBS-988 |
| - Header compression | | Not present | | RBS-989 |
| - CHOICE RLC info type | | RLC info | | RBS-990 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-991 |
| - Transmission RLC discard | | Not present | | RBS-992 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-993 |
| - DL UM RLC LI size | | 7 | | RBS-994 |
| - DL Reception Window Size | | 32 | | RBS-995 |
| - One sided RLC re-establishment | | FALSE | | RBS-996 |
| - Alternative E-bit interpretation | | Not present | | RBS-997 |
| - RB mapping info | | | | RBS-998 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-999 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1000 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------|--|---------|----------|
| - Number of uplink RLC logical channels | | 1 | | RBS-1001 |
| - Uplink transport channel type | | E-DCH | | RBS-1002 |
| - Logical channel identity | | 9 | | RBS-1003 |
| - E-DCH MAC-d flow identity | | 4 | | RBS-1004 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS-1005 |
| - DDI | | 7 | | RBS-1006 |
| - RLC PDU size list | | 12 RLC PDU sizes | | RBS-1007 |
| - RLC PDU size | | 96 bits | | RBS-1008 |
| - RLC PDU size | | 112 bits | | RBS-1009 |
| - RLC PDU size | | 144 bits | | RBS-1010 |
| - RLC PDU size | | 160 bits | | RBS-1011 |
| - RLC PDU size | | 176 bits | | RBS-1012 |
| - RLC PDU size | | 192 bits | | RBS-1013 |
| - RLC PDU size | | 208 bits | | RBS-1014 |
| - RLC PDU size | | 224 bits | | RBS-1015 |
| - RLC PDU size | | 288 bits | | RBS-1016 |
| - RLC PDU size | | 296 bits | | RBS-1017 |
| - RLC PDU size | | 312 bits | | RBS-1018 |
| - RLC PDU size | | 336 bits | | RBS-1019 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS-1020 |
| - Length indicator size | | Not present | | RBS-1021 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1022 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1023 |
| - Include in scheduling info | | TRUE | | RBS-1024 |
| - MAC logical channel priority | | 8 | | RBS-1025 |
| - Downlink RLC logical channel info | | | | RBS-1026 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1027 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1028 |
| - DL DCH Transport channel identity | | Not present | | RBS-1029 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1030 |
| - CHOICE DL MAC header type | | MAC-hs | | RBS-1031 |
| - DL HS-DSCH MAC-d flow identity | | 3 | | RBS-1032 |
| - Logical channel identity | | Not Present | | RBS-1033 |
| - RAB information for setup | A22 | | Rel-7 | RBS-1034 |
| - RAB info | | (second high-speed UM DTCH for PS domain) | | RBS-1035 |
| - RAB identity | | 0000 0110B | | RBS-1036 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1037 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1038 |
| - Re-establishment timer | | useT315 | | RBS-1039 |
| - RB information to setup | | | | RBS-1040 |
| - RB identity | | 27 | | RBS-1041 |
| - PDCP info | | | | RBS-1042 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1043 |
| - Max PDCP SN window size | | Not present | | RBS-1044 |
| - PDCP PDU header | | Absent | | RBS-1045 |
| - Header compression | | Not present | | RBS-1046 |
| - CHOICE RLC info type | | RLC info | | RBS-1047 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-1048 |
| - Transmission RLC discard | | Not present | | RBS-1049 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-1050 |
| - DL UM RLC LI size | | 15 | | RBS-1051 |
| - DL Reception Window Size | | Not present | | RBS-1052 |
| - One sided RLC re-establishment | | FALSE | | RBS-1053 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1054 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------------|---|----------|-----------|
| <ul style="list-style-type: none"> - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs | MAC-I-FIXED | Not present | Rel-8 | RBS-1055 |
| | | 1 RBMuxOption | | RBS-1056 |
| | | Not present | | RBS-1057 |
| | | Not present | | RBS-1058 |
| | | 1 | | RBS-1059 |
| | | E-DCH | | RBS-1060 |
| | | 9 | | RBS-1061 |
| | | 4 | | RBS-1062 |
| | | Fixed size | | RBS-1063 |
| | | 7 | | RBS-1064 |
| | | See clause 6.10 | | RBS-1065 |
| | | Flexible size | | RBS-1066 |
| | | 15 bit | | RBS-1067 |
| | | See clause 6.10 | | RBS-1068 |
| | | See clause 6.10 | | RBS-1069 |
| | | TRUE | | RBS-1070 |
| | | 8 | | RBS-1071 |
| | | 8 | | RBS-1072 |
| | | 1 | | RBS-1073 |
| | | HS-DSCH | | RBS-1074 |
| Not present | RBS-1075 | | | |
| Not present | RBS-1076 | | | |
| MAC-ehs | RBS-1077 | | | |
| 3 | RBS-1078 | | | |
| 9 | RBS-1079 | | | |
| <ul style="list-style-type: none"> - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU | A22, A25, A25b, A25c | (high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain | Rel-7 | RBS-1080 |
| | | Not Present | Rel-8 | RBS-1081 |
| | | useT315 | Rel-9 | RBS-1081a |
| | | 25 | RBS-1082 | |
| | | FALSE | RBS-1083 | |
| | | Not present | RBS-1084 | |
| | | Absent | RBS-1085 | |
| | | Not present | RBS-1086 | |
| | | RLC info | RBS-1087 | |
| | | AM RLC | RBS-1088 | |
| | | No Discard | RBS-1089 | |
| | | 15 | RBS-1090 | |
| | | 128 | RBS-1091 | |
| | | 500 | RBS-1092 | |
| | | 4 | RBS-1093 | |
| | | 100 | RBS-1094 | |
| | | 100 | RBS-1095 | |
| | | Not Present | RBS-1096 | |
| | | 1 | RBS-1097 | |
| | | 1 | RBS-1098 | |
| 1 | RBS-1099 | | | |
| 1 | RBS-1100 | | | |
| 1 | RBS-1101 | | | |
| 1 | RBS-1102 | | | |
| 1 | RBS-1103 | | | |
| 1 | RBS-1104 | | | |
| 1 | RBS-1105 | | | |
| 1 | RBS-1106 | | | |

| Information Element | Condition | Value/remark | Version | Index | |
|---|-----------|---|---|--|--|
| <ul style="list-style-type: none"> - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU Size - Length indicator size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - One sided RLC re-establishment - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" TRUE 768 100 Not Present TRUE Not Present FALSE Not present TRUE 1 RBMuxOption Not present 1 E-DCH 7 2 Fixed size 5 1 RLC PDU size 336 bits Flexible size 15 bit See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 0 7 | | RBS-1107 RBS-1108 RBS-1109 RBS-1110 RBS-1111 RBS-1112 RBS-1113 RBS-1114 RBS-1115 RBS-1116 RBS-1117 RBS-1118 RBS-1119 RBS-1120 RBS-1121 RBS-1122 RBS-1123 RBS-1124 RBS-1125 RBS-1126 RBS-1127 RBS-1128 RBS-1129 RBS-1130 RBS-1131 RBS-1132 RBS-1133 RBS-1134 RBS-1135 RBS-1136 RBS-1137 RBS-1138 RBS-1139 RBS-1140 RBS-1141 RBS-1142 RBS-1143 RBS-1144 RBS-1145 RBS-1146 RBS-1147 RBS-1148 | |
| | | MAC-I-FIXED | Rel-8 | | |
| | | MAC-I-FLEX | Rel-8 | | |
| | | A23 | (high-speed UM DTCH for CS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. CS domain '1010' if WB-AMR is tested, otherwise '0110' useT314 | Rel-7 Rel-8 | RBS-1149 RBS-1150 RBS-1151 RBS-1152 RBS-1153 RBS-1154 RBS-1155 |

| Information Element | Condition | Value/remark | Version | Index | | |
|--|---|---|--|--|--|--|
| <ul style="list-style-type: none"> - UL AMR rate - Max CS delay - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information <ul style="list-style-type: none"> - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard <ul style="list-style-type: none"> - CHOICE SDU discard mode <ul style="list-style-type: none"> - Timer_discard - CHOICE Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - One sided RLC re-establishment - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option <ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels <ul style="list-style-type: none"> - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list - CHOICE RLC PDU size <ul style="list-style-type: none"> - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of downlink RLC logical channels - Downlink transport channel type <ul style="list-style-type: none"> - DL DCH Transport channel identity - DL DSCH Transport channel identity <ul style="list-style-type: none"> - CHOICE DL MAC header type <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs | <ul style="list-style-type: none"> MAC-I-FIXED MAC-I-FLEX | <ul style="list-style-type: none"> Not Present 60 26 FALSE Not present present Not present RLC info UM RLC Timer based no explicit 50 UM RLC 7 Not present FALSE TRUE Not present 1 RBMuxOption Not present 1 E-DCH 7 2 Fixed size 6 Reference to clause 6.10 Parameter Set Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 0 7 | <ul style="list-style-type: none"> Rel-8 Rel-8 | <ul style="list-style-type: none"> RBS-1156 RBS-1157 RBS-1158 RBS-1159 RBS-1160 RBS-1161 RBS-1162 RBS-1163 RBS-1164 RBS-1165 RBS-1166 RBS-1167 RBS-1168 RBS-1169 RBS-1170 RBS-1171 RBS-1172 RBS-1173 RBS-1174 RBS-1175 RBS-1176 RBS-1177 RBS-1178 RBS-1179 RBS-1180 RBS-1181 RBS-1182 RBS-1183 RBS-1184 RBS-1185 RBS-1186 RBS-1187 RBS-1188 RBS-1189 RBS-1190 RBS-1191 RBS-1192 RBS-1193 RBS-1194 RBS-1195 RBS-1196 RBS-1197 RBS-1198 RBS-1199 RBS-1200 RBS-1201 RBS-1202 RBS-1203 RBS-1204 RBS-1205 RBS-1206 RBS-1207 RBS-1208 | | |
| | | <ul style="list-style-type: none"> - RAB information for setup <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup <ul style="list-style-type: none"> - RB identity - PDCP info | A24 | <ul style="list-style-type: none"> (high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25 | | <ul style="list-style-type: none"> RBS-1200 RBS-1201 RBS-1202 RBS-1203 RBS-1204 RBS-1205 RBS-1206 RBS-1207 RBS-1208 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - Support for lossless SRNS relocation | | FALSE | | RBS-1209 |
| - Max PDCP SN window size | | Not present | | RBS-1210 |
| - PDCP PDU header | | Absent | | RBS-1211 |
| - Header compression information | | Not present | | RBS-1212 |
| - CHOICE RLC info type | | RLC info | | RBS-1213 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-1214 |
| - Transmission RLC discard | | | | RBS-1215 |
| - CHOICE SDU discard mode | | No Discard | | RBS-1216 |
| - MAX_DAT | | 15 | | RBS-1217 |
| - Transmission window size | | 128 | | RBS-1218 |
| - Timer_RST | | 500 | | RBS-1219 |
| - Max_RST | | 4 | | RBS-1220 |
| - Polling info | | | | RBS-1221 |
| - Timer_poll_prohibit | | 100 | | RBS-1222 |
| - Timer_poll | | 100 | | RBS-1223 |
| - Poll_PDU | | Not Present | | RBS-1224 |
| - Poll_SDU | | 1 | | RBS-1225 |
| - Last transmission PDU poll | | TRUE | | RBS-1226 |
| - Last retransmission PDU poll | | TRUE | | RBS-1227 |
| - Poll_Windows | | 99 | | RBS-1228 |
| - Timer_poll_periodic | | Not Present | | RBS-1229 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1230 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-1231 |
| - In-sequence delivery | | TRUE | | RBS-1232 |
| - Receiving window size | | 768 | | RBS-1233 |
| - Downlink RLC status info | | | | RBS-1234 |
| - Timer_status_prohibit | | 100 | | RBS-1235 |
| - Timer_EPC | | Not Present | | RBS-1236 |
| - Missing PDU indicator | | TRUE | | RBS-1237 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1238 |
| - One sided RLC re-establishment | | FALSE | | RBS-1239 |
| - Alternative E-bit interpretation | | Not present | | RBS-1240 |
| - Use special value of HE field | | TRUE | | RBS-1241 |
| - RB mapping info | | | | RBS-1242 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1243 |
| - RLC logical channel mapping indicator | | Not present | | RBS-1244 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1245 |
| - Uplink transport channel type | | RACH | | RBS-1246 |
| - UL Transport channel identity | | Not Present | | RBS-1247 |
| - Logical channel identity | | 7 | | RBS-1248 |
| - CHOICE RLC size list | | Explicit list | | RBS-1249 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS-1250 |
| - MAC logical channel priority | | 8 | | RBS-1251 |
| - Downlink RLC logical channel info | | | | RBS-1252 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1253 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1254 |
| - DL DCH Transport channel identity | | Not present | | RBS-1255 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1256 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1257 |
| - DL HS-DSCH MAC-ehs | | 2 | | RBS-1258 |
| Queue Id | | | | |
| - Logical channel identity | | Not Present | | RBS-1259 |
| - RAB information for setup | A26 | | Rel-8 | RBS-1260 |
| - RAB info | | (first UM DTCH for PS domain) | | RBS-1261 |
| - RAB identity | | 0000 0101B | | RBS-1262 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1263 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1264 |
| - Re-establishment timer | | useT315 | | RBS-1265 |
| - RB information to setup | | | | RBS-1266 |
| - RB identity | | 26 | | RBS-1267 |
| - PDCP info | | | | RBS-1268 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1269 |
| - Max PDCP SN window size | | Not present | | RBS-1270 |
| - PDCP PDU header | | Absent | | RBS-1271 |
| - Header compression | | Not present | | RBS-1272 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-1273 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-1274 |
| - Transmission RLC discard | | Not present | | RBS-1275 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-1276 |
| - DL UM RLC LI size | | 7 | | RBS-1277 |
| - DL Reception Window Size | | Not present | | RBS-1278 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1279 |
| - One sided RLC re-establishment | | FALSE | | RBS-1280 |
| - RB mapping info | | | | RBS-1281 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1282 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1283 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1284 |
| - Uplink transport channel type | | E-DCH | | RBS-1285 |
| - Logical channel identity | | 7 | | RBS-1286 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1287 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1288 |
| - Length indicator size | | Not present | | RBS-1289 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1290 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1291 |
| - Include in scheduling info | | TRUE | | RBS-1292 |
| - MAC logical channel priority | | 8 | | RBS-1293 |
| - Downlink RLC logical channel info | | | | RBS-1294 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1295 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1296 |
| - DL DCH Transport channel identity | | Not present | | RBS-1297 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1298 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1299 |
| - DL HS-DSCH MAC-ehs | | 2 | | RBS-1300 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1301 |
| - RAB information for setup | A26 | | Rel-8 | RBS-1302 |
| - RAB info | | (second high-speed UM DTCH for PS domain) | | RBS-1303 |
| - RAB identity | | 0000 0110B | | RBS-1304 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1305 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1306 |
| - Re-establishment timer | | useT315 | | RBS-1307 |
| - RB information to setup | | | | RBS-1308 |
| - RB identity | | 27 | | RBS-1309 |
| - PDCP info | | | | RBS-1310 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - Support for lossless SRNS relocation | | FALSE | | RBS-1311 |
| - Max PDCP SN window size | | Not present | | RBS-1312 |
| - PDCP PDU header | | Absent | | RBS-1313 |
| - Header compression | | Not present | | RBS-1314 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-1315 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-1316 |
| - Transmission RLC discard | | Not present | | RBS-1317 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-1318 |
| - DL UM RLC LI size | | 7 | | RBS-1319 |
| - DL Reception Window Size | | Not present | | RBS-1320 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1321 |
| - One sided RLC re-establishment | | FALSE | | RBS-1322 |
| - RB mapping info | | | | RBS-1323 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1324 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1325 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1326 |
| - Uplink transport channel type | | E-DCH | | RBS-1327 |
| - Logical channel identity | | 8 | | RBS-1328 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-1329 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1330 |
| - Length indicator size | | Not present | | RBS-1331 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1332 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1333 |
| - Include in scheduling info | | TRUE | | RBS-1334 |
| - MAC logical channel priority | | 8 | | RBS-1335 |
| - Downlink RLC logical channel info | | | | RBS-1336 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1337 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1338 |
| - DL DCH Transport channel identity | | Not present | | RBS-1339 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1340 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1341 |
| - DL HS-DSCH MAC-ehs | | 3 | | RBS-1342 |
| Queue Id | | | | |
| - Logical channel identity | | 8 | | RBS-1343 |
| - RAB information for setup | A26 | | Rel-8 | RBS-1344 |
| - RAB info | | (third high-speed UM DTCH for PS domain) | | RBS-1345 |
| - RAB identity | | 0000 0111B | | RBS-1346 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1347 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1348 |
| - Re-establishment timer | | useT315 | | RBS-1349 |
| - RB information to setup | | | | RBS-1350 |
| - RB identity | | 21 | | RBS-1351 |
| - PDCP info | | | | RBS-1352 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1353 |
| - Max PDCP SN window size | | Not present | | RBS-1354 |
| - PDCP PDU header | | Absent | | RBS-1355 |
| - Header compression | | Not present | | RBS-1356 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-1357 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-1358 |
| - Transmission RLC discard | | Not present | | RBS-1359 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-1360 |
| - DL UM RLC LI size | | 7 | | RBS-1361 |
| - DL Reception Window Size | | Not present | | RBS-1362 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1363 |
| - One sided RLC re-establishment | | FALSE | | RBS-1364 |
| - RB mapping info | | | | RBS-1365 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1366 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1367 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1368 |
| - Uplink transport channel type | | E-DCH | | RBS-1369 |
| - Logical channel identity | | 9 | | RBS-1370 |
| - E-DCH MAC-d flow identity | | 4 | | RBS-1371 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1372 |
| - Length indicator size | | Not present | | RBS-1373 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1374 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1375 |
| - Include in scheduling info | | TRUE | | RBS-1376 |
| - MAC logical channel priority | | 8 | | RBS-1377 |
| - Downlink RLC logical channel info | | | | RBS-1378 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1379 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1380 |
| - DL DCH Transport channel identity | | Not present | | RBS-1381 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1382 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1383 |
| - DL HS-DSCH MAC-ehs | | 4 | | RBS-1384 |
| Queue Id | | | | |
| - Logical channel identity | | 9 | | RBS-1385 |
| - RAB information for setup | A27, A27a | (high-speed UM DTCH for PS domain) | Rel-8 | RBS-1386 |
| - RAB info | | 0000 0101B | | RBS-1387 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-1388 |
| - CN domain identity | | PS domain | | RBS-1389 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1390 |
| - Re-establishment timer | | useT315 | | RBS-1391 |
| - RB information to setup | | | | RBS-1392 |
| - RB identity | | 25 | | RBS-1393 |
| - PDCP info | | | | RBS-1394 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1395 |
| - Max PDCP SN window size | | Not present | | RBS-1396 |
| - PDCP PDU header | | Absent | | RBS-1397 |
| - Header compression information | | Not present | | RBS-1398 |
| - CHOICE RLC info type | | RLC info | | RBS-1399 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS-1400 |
| - Transmission RLC discard | | Not Present | | RBS-1401 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS-1402 |
| - DL UM RLC LI size | | 15 | | RBS-1403 |
| - DL Reception Window Size | | Not present | | RBS-1404 |
| - One sided RLC re-establishment | | FALSE | | RBS-1405 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1406 |
| - Use special value of HE field | | Not present | | RBS-1407 |
| - RB mapping info | | | | RBS-1408 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1409 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - RLC logical channel mapping indicator | | Not present | | RBS-1410 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1411 |
| - Uplink transport channel type | | E-DCH | | RBS-1412 |
| - Logical channel identity | | 7 | | RBS-1413 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1414 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1415 |
| - Length indicator size | | Not present | | RBS-1416 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1417 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1418 |
| - Include in scheduling info | | TRUE | | RBS-1419 |
| - MAC logical channel priority | | 8 | | RBS-1420 |
| - Downlink RLC logical channel info | | | | RBS-1421 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1422 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1423 |
| - DL DCH Transport channel identity | | Not present | | RBS-1424 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1425 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1426 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-1427 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1428 |
| - RAB information for setup | A29 | | Rel-8 | RBS-1429 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-1430 |
| - RAB identity | | 0000 0101B | | RBS-1431 |
| The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | | | RBS-1432 |
| - CN domain identity | | PS domain | | RBS-1433 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1434 |
| - Re-establishment timer | | useT315 | | RBS-1435 |
| - RB information to setup | | | | RBS-1436 |
| - RB identity | | 25 | | RBS-1437 |
| - PDCP info | | | | RBS-1438 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1439 |
| - Max PDCP SN window size | | Not present | | RBS-1440 |
| - PDCP PDU header | | Absent | | RBS-1441 |
| - Header compression | | Not present | | RBS-1442 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-1443 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-1444 |
| - Transmission RLC discard | | | | RBS-1445 |
| - CHOICE SDU discard mode | | No Discard | | RBS-1446 |
| - MAX_DAT | | 15 | | RBS-1447 |
| - Transmission window size | | 128 | | RBS-1448 |
| - Timer_RST | | 500 | | RBS-1449 |
| - Max_RST | | 4 | | RBS-1450 |
| - Polling info | | | | RBS-1451 |
| - Timer_poll_prohibit | | 100 | | RBS-1452 |
| - Timer_poll | | 100 | | RBS-1453 |
| - Poll_PDU | | Not Present | | RBS-1454 |
| - Poll_SDU | | 1 | | RBS-1455 |
| - Last transmission PDU poll | | TRUE | | RBS-1456 |
| - Last retransmission PDU poll | | TRUE | | RBS-1457 |
| - Poll_Windows | | 99 | | RBS-1458 |
| - Timer_poll_periodic | | Not Present | | RBS-1459 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1460 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-1461 |
| - In-sequence delivery | | TRUE | | RBS-1462 |
| - Receiving window size | | 768 | | RBS-1463 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|------------------------------------|---------|----------|
| - Downlink RLC status info | | 100 | | RBS-1464 |
| - Timer_status_prohibit | | Not Present | | RBS-1465 |
| - Timer_EPC | | TRUE | | RBS-1466 |
| - Missing PDU indicator | | Not Present | | RBS-1467 |
| - Timer_STATUS_periodic | | FALSE | | RBS-1468 |
| - One sided RLC re-establishment | | Not present | | RBS-1469 |
| - Alternative E-bit interpretation | | TRUE | | RBS-1470 |
| - Use special value of HE field | | 1 RBMuxOption | | RBS-1471 |
| - RB mapping info | | Not present | | RBS-1472 |
| - Information for each multiplexing option | | 1 | | RBS-1473 |
| - RLC logical channel mapping indicator | | Not present | | RBS-1474 |
| - Number of uplink RLC logical channels | | E-DCH | | RBS-1475 |
| - Uplink transport channel type | | 7 | | RBS-1476 |
| - Logical channel identity | | 0 | | RBS-1477 |
| - E-DCH MAC-d flow identity | | Flexible size | | RBS-1478 |
| - CHOICE RLC PDU size | | 15 bit | | RBS-1479 |
| - Length indicator size | | See clause 6.10 | | RBS-1480 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1481 |
| - Largest UL RLC PDU size | | TRUE | | RBS-1482 |
| - Include in scheduling info | | 8 | | RBS-1483 |
| - MAC logical channel priority | | 1 | | RBS-1484 |
| - Downlink RLC logical channel info | | HS-DSCH | | RBS-1485 |
| - Number of downlink RLC logical channels | | Not present | | RBS-1486 |
| - Downlink transport channel type | | Not present | | RBS-1487 |
| - DL DCH Transport channel identity | | Not present | | RBS-1488 |
| - DL DSCH Transport channel identity | | MAC-ehs | | RBS-1489 |
| - CHOICE DL MAC header type | | 2 | | RBS-1490 |
| - DL HS-DSCH MAC-ehs | | 7 | | RBS-1491 |
| Queue Id | | | | RBS-1492 |
| - Logical channel identity | | | | |
| - RAB information for setup | A30 | (high-speed AM DTCH for PS domain) | Rel-8 | RBS-1493 |
| - RAB info | | 0000 0101B | | RBS-1494 |
| - RAB identity | | | | RBS-1495 |
| The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | | | RBS-1496 |
| - CN domain identity | | PS domain | | RBS-1497 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1498 |
| - Re-establishment timer | | useT315 | | RBS-1499 |
| - RB information to setup | | 25 | | RBS-1500 |
| - RB identity | | FALSE | | RBS-1501 |
| - PDCP info | | Not present | | RBS-1502 |
| - Support for lossless SRNS relocation | | Absent | | RBS-1503 |
| - Max PDCP SN window size | | Not present | | RBS-1504 |
| - PDCP PDU header | | Not present | | RBS-1505 |
| - Header compression information | | RLC info | | RBS-1506 |
| - CHOICE RLC info type | | AM RLC | | RBS-1507 |
| - CHOICE Uplink RLC mode | | | | RBS-1508 |
| - Transmission RLC discard | | No Discard | | RBS-1509 |
| - CHOICE SDU discard mode | | 15 | | RBS-1510 |
| - MAX_DAT | | 128 | | RBS-1511 |
| - Transmission window size | | 500 | | RBS-1512 |
| - Timer_RST | | 4 | | RBS-1513 |
| - Max_RST | | 100 | | RBS-1514 |
| - Polling info | | | | RBS-1515 |
| - Timer_poll_prohibit | | | | RBS-1516 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-----------|--|---------|----------|
| - Timer_poll | | 100 | | RBS-1517 |
| - Poll_PDU | | Not Present | | RBS-1518 |
| - Poll_SDU | | 1 | | RBS-1519 |
| - Last transmission PDU poll | | TRUE | | RBS-1520 |
| - Last retransmission PDU poll | | TRUE | | RBS-1521 |
| - Poll_Windows | | 99 | | RBS-1522 |
| - Timer_poll_periodic | | Not Present | | RBS-1523 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1524 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS-1525 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS-1526 |
| - Receiving window size | | 768 | | RBS-1527 |
| - Downlink RLC status info | | | | RBS-1528 |
| - Timer_status_prohibit | | 100 | | RBS-1529 |
| - Timer_EPC | | Not Present | | RBS-1530 |
| - Missing PDU indicator | | TRUE | | RBS-1531 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1532 |
| - One sided RLC re- | | FALSE | | RBS-1533 |
| establishment | | | | |
| - Alternative E-bit interpretation | | Not present | | RBS-1534 |
| - Use special value of HE field | | TRUE | | RBS-1535 |
| - RB mapping info | | | | RBS-1536 |
| - Information for each multiplexing | | 1 RBMuxOption | | RBS-1537 |
| option | | | | |
| - RLC logical channel mapping | | Not present | | RBS-1538 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS-1539 |
| channels | | | | |
| - Uplink transport channel type | | E-DCH | | RBS-1540 |
| - Logical channel identity | | 7 | | RBS-1541 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1542 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1543 |
| - Length indicator size | | 15 bit | | RBS-1544 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS-1545 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS-1546 |
| - Include in scheduling info | | TRUE | | RBS-1547 |
| - MAC logical channel priority | | 8 | | RBS-1548 |
| - Downlink RLC logical channel | | | | RBS-1549 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS-1550 |
| logical channels | | | | |
| - Downlink transport channel | | HS-DSCH | | RBS-1551 |
| type | | | | |
| - DL DCH Transport channel | | Not present | | RBS-1552 |
| identity | | | | |
| - DL DSCH Transport channel | | Not present | | RBS-1553 |
| identity | | | | |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1554 |
| - DL HS-DSCH MAC-ehs | | 2 | | RBS-1555 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1556 |
| - RAB information for setup | A31, A32 | | Rel-9 | RBS-1557 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-1558 |
| - RAB identity | | 0000 0101B | | RBS-1559 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1560 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1561 |
| - Re-establishment timer | | useT315 | | RBS-1562 |
| - RB information to setup | | | | RBS-1563 |
| - RB identity | | 25 | | RBS-1564 |
| - PDCP info | | | | RBS-1565 |
| - Support for lossless SRNS | | FALSE | | RBS-1566 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS-1567 |
| - PDCP PDU header | | Absent | | RBS-1568 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|----------|
| - Header compression information | | Not present | | RBS-1569 |
| - CHOICE RLC info type | | RLC info | | RBS-1570 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-1571 |
| - Transmission RLC discard | | | | RBS-1572 |
| - CHOICE SDU discard mode | | No Discard | | RBS-1573 |
| - MAX_DAT | | 15 | | RBS-1574 |
| - Transmission window size | | 2047 | | RBS-1575 |
| - Timer_RST | | 500 | | RBS-1576 |
| - Max_RST | | 4 | | RBS-1577 |
| - Polling info | | | | RBS-1578 |
| - Timer_poll_prohibit | | 100 | | RBS-1579 |
| - Timer_poll | | 100 | | RBS-1580 |
| - Poll_PDU | | Not Present | | RBS-1581 |
| - Poll_SDU | | 1 | | RBS-1582 |
| - Last transmission PDU poll | | TRUE | | RBS-1583 |
| - Last retransmission PDU poll | | TRUE | | RBS-1584 |
| - Poll_Windows | | 50 | | RBS-1585 |
| - Timer_poll_periodic | | Not Present | | RBS-1586 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1587 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-1588 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-1589 |
| - In-sequence delivery | | TRUE | | RBS-1590 |
| - Receiving window size | | 2047 | | RBS-1591 |
| - Downlink RLC status info | | | | RBS-1592 |
| - Timer_status_prohibit | | 80 | | RBS-1593 |
| - Timer_EPC | | Not Present | | RBS-1594 |
| - Missing PDU indicator | | TRUE | | RBS-1595 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1596 |
| - One sided RLC re-establishment | | FALSE | | RBS-1597 |
| - Alternative E-bit interpretation | | Not present | | RBS-1598 |
| - Use special value of HE field | | TRUE | | RBS-1599 |
| - RB mapping info | | | | RBS-1600 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1601 |
| - RLC logical channel mapping indicator | | Not present | | RBS-1602 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1603 |
| - Uplink transport channel type | | E-DCH | | RBS-1604 |
| - Logical channel identity | | 7 | | RBS-1605 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1606 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-1607 |
| - DDI | | 7 | | RBS-1608 |
| - RLC PDU size list | | See clause 6.10 | | RBS-1609 |
| - Include in scheduling info | | TRUE | | RBS-1611 |
| - MAC logical channel priority | | 8 | | RBS-1612 |
| - Downlink RLC logical channel info | | | | RBS-1613 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1614 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1615 |
| - DL DCH Transport channel identity | | Not present | | RBS-1616 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1617 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1618 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-1619 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1620 |
| - RAB information for setup | A31, A32 | | Rel-9 | RBS-1621 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-1622 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS-1623 |
| - CN domain identity | | PS domain | | RBS-1624 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1625 |
| - Re-establishment timer | | useT315 | | RBS-1626 |
| - RB information to setup | | | | RBS-1627 |
| - RB identity | | 25 | | RBS-1628 |
| - PDCP info | | | | RBS-1629 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1630 |
| - Max PDCP SN window size | | Not present | | RBS-1631 |
| - PDCP PDU header | | Absent | | RBS-1632 |
| - Header compression information | | Not present | | RBS-1633 |
| - CHOICE RLC info type | | RLC info | | RBS-1634 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-1635 |
| - Transmission RLC discard | | | | RBS-1636 |
| - CHOICE SDU discard mode | | No Discard | | RBS-1637 |
| - MAX_DAT | | 15 | | RBS-1638 |
| - Transmission window size | | 2047 | | RBS-1639 |
| - Timer_RST | | 500 | | RBS-1640 |
| - Max_RST | | 4 | | RBS-1641 |
| - Polling info | | | | RBS-1642 |
| - Timer_poll_prohibit | | 100 | | RBS-1643 |
| - Timer_poll | | 100 | | RBS-1644 |
| - Poll_PDU | | Not Present | | RBS-1645 |
| - Poll_SDU | | 1 | | RBS-1646 |
| - Last transmission PDU poll | | TRUE | | RBS-1647 |
| - Last retransmission PDU poll | | TRUE | | RBS-1648 |
| - Poll_Windows | | 50 | | RBS-1649 |
| - Timer_poll_periodic | | Not Present | | RBS-1650 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1651 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-1652 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-1653 |
| - In-sequence delivery | | TRUE | | RBS-1654 |
| - Receiving window size | | 2047 | | RBS-1655 |
| - Downlink RLC status info | | | | RBS-1656 |
| - Timer_status_prohibit | | 80 | | RBS-1657 |
| - Timer_EPC | | Not Present | | RBS-1658 |
| - Missing PDU indicator | | TRUE | | RBS-1659 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1660 |
| - One sided RLC re-establishment | | FALSE | | RBS-1661 |
| - Alternative E-bit interpretation | | Not present | | RBS-1662 |
| - Use special value of HE field | | TRUE | | RBS-1663 |
| - RB mapping info | | | | RBS-1664 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1665 |
| - RLC logical channel mapping indicator | | Not present | | RBS-1666 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1667 |
| - Uplink transport channel type | | E-DCH | | RBS-1668 |
| - Logical channel identity | | 7 | | RBS-1669 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1670 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-1671 |
| - DDI | | 7 | | RBS-1672 |
| - RLC PDU size list | | See clause 6.10 | | RBS-1673 |
| - Include in scheduling info | | TRUE | | RBS-1674 |
| - MAC logical channel priority | | 8 | | RBS-1675 |
| - Downlink RLC logical channel info | | | | RBS-1676 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1677 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------------|--|---------|----------|
| - Downlink transport channel type | | HS-DSCH | | RBS-1678 |
| - DL DCH Transport channel identity | | Not present | | RBS-1679 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1680 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1681 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-1682 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1683 |
| - RAB information for setup | A33, A34, A35, A36, A37 | | Rel-10 | RBS-1684 |
| | A38, A39, A40, A41, A42, A43 | | Rel-11 | |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS-1685 |
| - RAB identity | | 0000 0101B | | RBS-1686 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS-1687 |
| - NAS Synchronization Indicator | | Not Present | | RBS-1688 |
| - Re-establishment timer | | useT315 | | RBS-1689 |
| - RB information to setup | | | | RBS-1690 |
| - RB identity | | 25 | | RBS-1691 |
| - PDCP info | | | | RBS-1692 |
| - Support for lossless SRNS relocation | | FALSE | | RBS-1693 |
| - Max PDCP SN window size | | Not present | | RBS-1694 |
| - PDCP PDU header | | Absent | | RBS-1695 |
| - Header compression | | Not present | | RBS-1696 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS-1697 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS-1698 |
| - Transmission RLC discard | | | | RBS-1699 |
| - CHOICE SDU discard mode | | No Discard | | RBS-1700 |
| - MAX_DAT | | 15 | | RBS-1701 |
| - Transmission window size | | 2047 | | RBS-1702 |
| - Timer_RST | | 500 | | RBS-1703 |
| - Max_RST | | 4 | | RBS-1704 |
| - Polling info | | | | RBS-1705 |
| - Timer_poll_prohibit | | 100 | | RBS-1706 |
| - Timer_poll | | 100 | | RBS-1707 |
| - Poll_PDU | | Not Present | | RBS-1708 |
| - Poll_SDU | | 1 | | RBS-1709 |
| - Last transmission PDU poll | | TRUE | | RBS-1710 |
| - Last retransmission PDU poll | | TRUE | | RBS-1711 |
| - Poll_Windows | | 50 | | RBS-1712 |
| - Timer_poll_periodic | | Not Present | | RBS-1713 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS-1714 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS-1715 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-1716 |
| - In-sequence delivery | | TRUE | | RBS-1717 |
| - Receiving window size | | 2047 | | RBS-1718 |
| - Downlink RLC status info | | | | RBS-1719 |
| - Timer_status_prohibit | | 80 | | RBS-1720 |
| - Timer_EPC | | Not Present | | RBS-1721 |
| - Missing PDU indicator | | TRUE | | RBS-1722 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1723 |
| - One sided RLC re-establishment | | FALSE | | RBS-1724 |
| - Alternative E-bit interpretation | | Not present | | RBS-1725 |
| - Use special value of HE field | | TRUE | | RBS-1726 |
| - RB mapping info | | | | RBS-1727 |
| - Information for each | | 1 RBMuxOption | | RBS-1728 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|--|
| multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | Not present 1 E-DCH 7 2 Flexible size 15 bit 16 2432 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 0 7 | | RBS-1729 RBS-1730 RBS-1731 RBS-1732 RBS-1733 RBS-1734 RBS-1735 RBS-1736 RBS-1737 RBS-1738 RBS-1739 RBS-1740 RBS-1741 RBS-1742 RBS-1743 RBS-1744 RBS-1745 RBS-1746 RBS-1747 |
| - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU | A44, A45 | PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info AM RLC No Discard 15 2047 500 4 100 100 Not Present 1 TRUE TRUE 50 Not Present AM RLC Reference to clause 6 Parameter Set | Rel-11 | RBS-1748 RBS-1749 RBS-1750 RBS-1751 RBS-1752 RBS-1753 RBS-1754 RBS-1755 RBS-1756 RBS-1757 RBS-1758 RBS-1759 RBS-1760 RBS-1761 RBS-1762 RBS-1763 RBS-1764 RBS-1765 RBS-1766 RBS-1767 RBS-1768 RBS-1769 RBS-1770 RBS-1771 RBS-1772 RBS-1773 RBS-1774 RBS-1775 RBS-1776 RBS-1777 RBS-1778 RBS-1779 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|---|---|--|
| Size | | | | |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS-1780 |
| - In-sequence delivery | | TRUE | | RBS-1781 |
| - Receiving window size | | 2047 | | RBS-1782 |
| - Downlink RLC status info | | | | RBS-1783 |
| - Timer_status_prohibit | | 80 | | RBS-1784 |
| - Timer_EPC | | Not Present | | RBS-1785 |
| - Missing PDU indicator | | TRUE | | RBS-1786 |
| - Timer_STATUS_periodic | | Not Present | | RBS-1787 |
| - Timer_Reordering | | 200 | | |
| - One sided RLC re-establishment | | FALSE | | RBS-1788 |
| - Alternative E-bit interpretation | | Not present | | RBS-1789 |
| - Use special value of HE field | | TRUE | | RBS-1790 |
| - RB mapping info | | | | RBS-1791 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1792 |
| - RLC logical channel mapping indicator | | Not present | | RBS-1793 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1794 |
| - Uplink transport channel type | | E-DCH | | RBS-1795 |
| - Logical channel identity | | 7 | | RBS-1796 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-1797 |
| - CHOICE RLC PDU size | | Flexible size | | RBS-1798 |
| - Length indicator size | | 15 bit | | RBS-1799 |
| - Minimum UL RLC PDU size | | 16 | | RBS-1800 |
| - Largest UL RLC PDU size | | 2432 | | RBS-1801 |
| - Include in scheduling info | | TRUE | | RBS-1802 |
| - MAC logical channel priority | | 8 | | RBS-1803 |
| - Downlink RLC logical channel info | | | | RBS-1804 |
| - Number of downlink RLC logical channels | | 1 | | RBS-1805 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1806 |
| - DL DCH Transport channel identity | | Not present | | RBS-1807 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1808 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-1809 |
| - DL HS-DSCH MAC-ehs | | 0 | | RBS-1810 |
| Queue Id | | | | |
| - Logical channel identity | | 7 | | RBS-1811 |
| RB information to reconfigure list | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17f, A18, A19, A19a, A20, A21, A22, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-1812 RBS-1813 RBS-1814 RBS-1815 RBS-1816 RBS-1817 RBS-1818 |
| RB information to be affected | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 | RBS-1819 RBS-1820 |

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| | A12 , A17, A17a, A17f, A18, A19, A20, A21, A24 , A23 , A25a, A28, A29 A35 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-10 Rel-11 | RBS-1821 RBS-1822 RBS-1823 RBS-1824 |
| RB information to be affected | A13, A15 A19a, A25b , A17d, A17e , A26 | | Rel-6 Rel-7 Rel-8 Rel-9 | RBS-1825 RBS-1826 RBS-1827 RBS-1828 RBS-1829 RBS-1830 RBS-1831 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS-1832 |
| - RB mapping info | | 1 RBMuxOption | | RBS-1833 |
| - Information for each multiplexing option | | Not Present | | RBS-1834 |
| - RLC logical channel mapping indicator | | 1 | | RBS-1835 |
| - Number of uplink RLC logical channels | | E-DCH | | RBS-1836 |
| - Uplink transport channel type | | 1 | | RBS-1837 |
| - Logical channel identity | | 1 | | RBS-1838 |
| - E-DCH MAC-d flow identity | | Fixed size | | RBS-1839 |
| - CHOICE RLC PDU size | | 1 | | RBS-1840 |
| - DDI | | 1 RLC PDU size | | RBS-1841 |
| - RLC PDU size list | | 144 bits | | RBS-1842 |
| - RLC PDU size | | FALSE | | RBS-1843 |
| - Include in scheduling info | | 1 | | RBS-1844 |
| - MAC logical channel priority | | 1 | | RBS-1845 |
| - Downlink RLC logical channel info | | 1 | | RBS-1846 |
| - Number of RLC logical channels | | DCH | | RBS-1847 |
| - Downlink transport channel type | | 10 | | RBS-1848 |
| - DL DCH Transport channel identity | | Not Present | | RBS-1849 |
| - DL DSCH Transport channel identity | | 1 | | RBS-1850 |
| - Logical channel identity | | 2 (AM DCCH for RRC) | | RBS-1851 |
| - RB identity | | 1 RBMuxOption | | RBS-1852 |
| - RB mapping info | | Not Present | | RBS-1853 |
| - Information for each multiplexing option | | 1 | | RBS-1854 |
| - RLC logical channel mapping indicator | | 1 | | RBS-1855 |
| - Number of uplink RLC logical channels | | E-DCH | | RBS-1856 |
| - Uplink transport channel type | | 2 | | RBS-1857 |
| - Logical channel identity | | 1 | | RBS-1858 |
| - E-DCH MAC-d flow identity | | Fixed size | | RBS-1859 |
| - CHOICE RLC PDU size | | 2 | | RBS-1860 |
| - DDI | | 1 RLC PDU size | | RBS-1861 |
| - RLC PDU size list | | 144 bits | | RBS-1862 |
| - RLC PDU size | | FALSE | | RBS-1863 |
| - Include in scheduling info | | 2 | | RBS-1864 |
| - MAC logical channel priority | | 1 | | RBS-1865 |
| - Downlink RLC logical channel info | | 1 | | |
| - Number of RLC logical channels | | DCH | | |
| - Downlink transport channel type | | | | |

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| - DL DCH Transport channel identity | | 10 | | RBS-1866 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-1867 |
| - Logical channel identity | | 2 | | RBS-1868 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS-1869 |
| - RB mapping info | | | | RBS-1870 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1871 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1872 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1873 |
| - Uplink transport channel type | | E-DCH | | RBS-1874 |
| - Logical channel identity | | 3 | | RBS-1875 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-1876 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-1877 |
| - DDI | | 3 | | RBS-1878 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-1879 |
| - RLC PDU size | | 144 bits | | RBS-1880 |
| - Include in scheduling info | | FALSE | | RBS-1881 |
| - MAC logical channel priority | | 3 | | RBS-1882 |
| - Downlink RLC logical channel info | | | | RBS-1883 |
| - Number of RLC logical channels | | 1 | | RBS-1884 |
| - Downlink transport channel type | | DCH | | RBS-1885 |
| - DL DCH Transport channel identity | | 10 | | RBS-1886 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-1887 |
| - Logical channel identity | | 3 | | RBS-1888 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS-1889 |
| - RB mapping info | | | | RBS-1890 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1891 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1892 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1893 |
| - Uplink transport channel type | | E-DCH | | RBS-1894 |
| - Logical channel identity | | 4 | | RBS-1895 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-1896 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-1897 |
| - DDI | | 4 | | RBS-1898 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-1899 |
| - RLC PDU size | | 144 bits | | RBS-1900 |
| - Include in scheduling info | | FALSE | | RBS-1901 |
| - MAC logical channel priority | | 4 | | RBS-1902 |
| - Downlink RLC logical channel info | | | | RBS-1903 |
| - Number of RLC logical channels | | 1 | | RBS-1904 |
| - Downlink transport channel type | | DCH | | RBS-1905 |
| - DL DCH Transport channel identity | | 10 | | RBS-1906 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-1907 |
| - Logical channel identity | | 4 | | RBS-1908 |
| RB information to be affected | A14, A16 , A19b , A31, A32 | | Rel-6 Rel-7 Rel-9 | RBS-1909 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS-1910 |
| - RB mapping info | | | | RBS-1911 |
| | | | | RBS-1912 |

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| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1913 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1914 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1915 |
| - Uplink transport channel type | | E-DCH | | RBS-1916 |
| - Logical channel identity | | 1 | | RBS-1917 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-1918 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-1919 |
| - DDI | | 1 | | RBS-1920 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-1921 |
| - RLC PDU size | | 144 bits | | RBS-1922 |
| - Include in scheduling info | | FALSE | | RBS-1923 |
| - MAC logical channel priority | | 1 | | RBS-1924 |
| - Downlink RLC logical channel info | | | | RBS-1925 |
| - Number of RLC logical channels | | 1 | | RBS-1926 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1927 |
| - DL DCH Transport channel identity | | Not present | | RBS-1928 |
| - DL DSCH Transport channel identity | | Not present | | RBS-1929 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS-1930 |
| - Logical channel identity | | 1 | | RBS-1931 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS-1932 |
| - RB mapping info | | | | RBS-1933 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1934 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1935 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1936 |
| - Uplink transport channel type | | E-DCH | | RBS-1937 |
| - Logical channel identity | | 2 | | RBS-1938 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-1939 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-1940 |
| - DDI | | 2 | | RBS-1941 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-1942 |
| - RLC PDU size | | 144 bits | | RBS-1943 |
| - Include in scheduling info | | FALSE | | RBS-1944 |
| - MAC logical channel priority | | 2 | | RBS-1945 |
| - Downlink RLC logical channel info | | | | RBS-1946 |
| - Number of RLC logical channels | | 1 | | RBS-1947 |
| - Downlink transport channel type | | HS-DSCH | | RBS-1948 |
| - DL DCH Transport channel identity | | Not Present | | RBS-1949 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-1950 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS-1951 |
| - Logical channel identity | | 2 | | RBS-1952 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS-1953 |
| - RB mapping info | | | | RBS-1954 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-1955 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-1956 |
| - Number of uplink RLC logical channels | | 1 | | RBS-1957 |
| - Uplink transport channel type | | E-DCH | | RBS-1958 |

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| <ul style="list-style-type: none"> - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity | | 3 | Rel-8 | RBS-1959 |
| | | 1 | | RBS-1960 |
| | | Fixed size | | RBS-1961 |
| | | 3 | | RBS-1962 |
| | | 1 RLC PDU size | | RBS-1963 |
| | | 144 bits | | RBS-1964 |
| | | FALSE | | RBS-1965 |
| | | 3 | | RBS-1966 |
| | | | | RBS-1967 |
| | | | | RBS-1968 |
| | | HS-DSCH | | RBS-1969 |
| | | Not Present | | RBS-1970 |
| | | Not Present | | RBS-1971 |
| | | 1 | | RBS-1972 |
| | | 3 | | RBS-1973 |
| | | 4 (AM DCCH for NAS Low Priority) | | RBS-1974 |
| | | | | RBS-1975 |
| | | 1 RBMuxOption | | RBS-1976 |
| | | Not Present | | RBS-1977 |
| | | 1 | RBS-1978 | |
| E-DCH | RBS-1979 | | | |
| 4 | RBS-1980 | | | |
| 1 | RBS-1981 | | | |
| Fixed size | RBS-1982 | | | |
| 4 | RBS-1983 | | | |
| 1 RLC PDU size | RBS-1984 | | | |
| 144 bits | RBS-1985 | | | |
| FALSE | RBS-1986 | | | |
| 4 | RBS-1987 | | | |
| | RBS-1988 | | | |
| | RBS-1989 | | | |
| | RBS-1990 | | | |
| | RBS-1991 | | | |
| | RBS-1992 | | | |
| | RBS-1993 | | | |
| | RBS-1994 | | | |
| RB information to be affected | A17b, A17c, A22, A28a, A25, A25c | | Rel-7 | RBS-1995 |
| | | | Rel-8 | RBS-1996 |
| | | 1 (UM DCCH for RRC) | Rel-9 | RBS-1997 |
| | | 1 RBMuxOption | | RBS-1998 |
| | | 1 RBMuxOption | | RBS-1999 |
| | | Not Present | | RBS-2000 |
| | | 1 | | RBS-2001 |
| | | E-DCH | | RBS-2002 |
| | | 1 | | RBS-2003 |
| | | 1 | | RBS-2004 |
| | | Fixed size | Rel-8 | RBS-2005 |

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| - DDI | | 1 | | RBS-2006 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2007 |
| - RLC PDU size | | 144 bits | | RBS-2008 |
| - Include in scheduling info | | FALSE | | RBS-2009 |
| - MAC logical channel priority | | 1 | | RBS-2010 |
| - Downlink RLC logical channel info | | | | RBS-2011 |
| - Number of RLC logical channels | | 1 | | RBS-2012 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2013 |
| - DL DCH Transport channel identity | | Not present | | RBS-2014 |
| - DL DSCH Transport channel identity | | Not present | | RBS-2015 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-2016 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2017 |
| Queue Id | | | | |
| - Logical channel identity | | 1 | | RBS-2018 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS-2019 |
| - RB mapping info | | | | RBS-2020 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2021 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2022 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2023 |
| - Uplink transport channel type | | E-DCH | | RBS-2024 |
| - Logical channel identity | | 2 | | RBS-2025 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2026 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-2027 |
| - DDI | | 2 | | RBS-2028 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2029 |
| - RLC PDU size | | 144 bits | | RBS-2030 |
| - Include in scheduling info | | FALSE | | RBS-2031 |
| - MAC logical channel priority | | 2 | | RBS-2032 |
| - Downlink RLC logical channel info | | | | RBS-2033 |
| - Number of RLC logical channels | | 1 | | RBS-2034 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2035 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2036 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2037 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-2038 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2039 |
| Queue Id | | | | |
| - Logical channel identity | | 2 | | RBS-2040 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS-2041 |
| - RB mapping info | | | | RBS-2042 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2043 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2044 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2045 |
| - Uplink transport channel type | | E-DCH | | RBS-2046 |
| - Logical channel identity | | 3 | | RBS-2047 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2048 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-2049 |
| - DDI | | 3 | | RBS-2050 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2051 |
| - RLC PDU size | | 144 bits | | RBS-2052 |
| - Include in scheduling info | | FALSE | | RBS-2053 |
| - MAC logical channel priority | | 3 | | RBS-2054 |

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| - Downlink RLC logical channel info | | | | RBS-2055 |
| - Number of RLC logical channels | | 1 | | RBS-2056 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2057 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2058 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2059 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2060 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2061 |
| Queue Id | | | | |
| - Logical channel identity | | 3 | | RBS-2062 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS-2063 |
| - RB mapping info | | | | RBS-2064 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2065 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2066 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2067 |
| - Uplink transport channel type | | E-DCH | | RBS-2068 |
| - Logical channel identity | | 4 | | RBS-2069 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2070 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-2071 |
| - DDI | | 4 | | RBS-2072 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2073 |
| - RLC PDU size | | 144 bits | | RBS-2074 |
| - Include in scheduling info | | FALSE | | RBS-2075 |
| - MAC logical channel priority | | 4 | | RBS-2076 |
| - Downlink RLC logical channel info | | | | RBS-2077 |
| - Number of RLC logical channels | | 1 | | RBS-2078 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2079 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2080 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2081 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2082 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2083 |
| Queue Id | | | | |
| - Logical channel identity | | 4 | | RBS-2084 |
| RB information to be affected | A27, A27a, A33, A34, A36, A37 | | Rel-8 Rel-10 | RBS-2085 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS-2086 |
| - RB mapping info | | | | RBS-2087 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2088 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2089 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2090 |
| - Uplink transport channel type | | E-DCH | | RBS-2091 |
| - Logical channel identity | | 1 | | RBS-2092 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2093 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2094 |
| - DDI | | Not Present | | RBS-2095 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2096 |
| - RLC PDU size | | 144 bits | | RBS-2097 |
| - Include in scheduling info | | FALSE | | RBS-2098 |
| - MAC logical channel priority | | 1 | | RBS-2099 |
| - Downlink RLC logical channel info | | | | RBS-2100 |

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| - Number of RLC logical channels | | 1 | | RBS-2101 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2102 |
| - DL DCH Transport channel identity | | Not present | | RBS-2103 |
| - DL DSCH Transport channel identity | | Not present | | RBS-2104 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2105 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2106 |
| Queue Id | | | | |
| - Logical channel identity | | 1 | | RBS-2107 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS-2108 |
| - RB mapping info | | | | RBS-2109 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2110 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2111 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2112 |
| - Uplink transport channel type | | E-DCH | | RBS-2113 |
| - Logical channel identity | | 2 | | RBS-2114 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2115 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2116 |
| - DDI | | Not Present | | RBS-2117 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2118 |
| - RLC PDU size | | 144 bits | | RBS-2119 |
| - Include in scheduling info | | FALSE | | RBS-2120 |
| - MAC logical channel priority | | 2 | | RBS-2121 |
| - Downlink RLC logical channel info | | | | RBS-2122 |
| - Number of RLC logical channels | | 1 | | RBS-2123 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2124 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2125 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2126 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2127 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2128 |
| Queue Id | | | | |
| - Logical channel identity | | 2 | | RBS-2129 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS-2130 |
| - RB mapping info | | | | RBS-2131 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2132 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2133 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2134 |
| - Uplink transport channel type | | E-DCH | | RBS-2135 |
| - Logical channel identity | | 3 | | RBS-2136 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2137 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2138 |
| - DDI | | Not Present | | RBS-2139 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2140 |
| - RLC PDU size | | 144 bits | | RBS-2141 |
| - Include in scheduling info | | FALSE | | RBS-2142 |
| - MAC logical channel priority | | 3 | | RBS-2143 |
| - Downlink RLC logical channel info | | | | RBS-2144 |
| - Number of RLC logical channels | | 1 | | RBS-2145 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2146 |

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| - DL DCH Transport channel identity | | Not Present | | RBS-2147 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2148 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2149 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2150 |
| Queue Id | | | | |
| - Logical channel identity | | 3 | | RBS-2151 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS-2152 |
| - RB mapping info | | | | RBS-2153 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2154 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2155 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2156 |
| - Uplink transport channel type | | E-DCH | | RBS-2157 |
| - Logical channel identity | | 4 | | RBS-2158 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2159 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2160 |
| - DDI | | Not Present | | RBS-2161 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2162 |
| - RLC PDU size | | 144 bits | | RBS-2163 |
| - Include in scheduling info | | FALSE | | RBS-2164 |
| - MAC logical channel priority | | 4 | | RBS-2165 |
| - Downlink RLC logical channel info | | | | RBS-2166 |
| - Number of RLC logical channels | | 1 | | RBS-2167 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2168 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2169 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2170 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2171 |
| - DL HS-DSCH MAC-ehs | | 1 | | RBS-2172 |
| Queue Id | | | | |
| - Logical channel identity | | 4 | | RBS-2173 |
| RB information to be affected | A30 | | Rel-8 | RBS-2174 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS-2175 |
| - RB mapping info | | | | RBS-2176 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2177 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2178 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2179 |
| - Uplink transport channel type | | E-DCH | | RBS-2180 |
| - Logical channel identity | | 1 | | RBS-2181 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-2182 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2183 |
| - DDI | | 0 (Not applicable for MAC-i/is) | | RBS-2184 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2185 |
| - RLC PDU size | | 144 bits | | RBS-2186 |
| - Include in scheduling info | | FALSE | | RBS-2187 |
| - MAC logical channel priority | | 1 | | RBS-2188 |
| - Downlink RLC logical channel info | | | | RBS-2189 |
| - Number of RLC logical channels | | 1 | | RBS-2190 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2191 |
| - DL DCH Transport channel identity | | Not present | | RBS-2192 |
| - DL DSCH Transport channel identity | | Not present | | RBS-2193 |

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| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2194 |
| - DL HS-DSCH MAC-ehs | | 3 | | RBS-2195 |
| Queue Id | | | | |
| - Logical channel identity | | 1 | | RBS-2196 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS-2197 |
| - RB mapping info | | | | RBS-2198 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2199 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2200 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2201 |
| - Uplink transport channel type | | E-DCH | | RBS-2202 |
| - Logical channel identity | | 2 | | RBS-2203 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-2204 |
| - CHOICE RLC PDU size | | Fixed size | | RBS-2205 |
| - DDI | | 0 (Not applicable for MAC-i/is) | | RBS-2206 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2207 |
| - RLC PDU size | | 144 bits | | RBS-2208 |
| - Include in scheduling info | | FALSE | | RBS-2209 |
| - MAC logical channel priority | | 2 | | RBS-2210 |
| - Downlink RLC logical channel info | | | | RBS-2211 |
| - Number of RLC logical channels | | 1 | | RBS-2212 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2213 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2214 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2215 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2216 |
| - DL HS-DSCH MAC-ehs | | 3 | | RBS-2217 |
| Queue Id | | | | |
| - Logical channel identity | | 2 | | RBS-2218 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS-2219 |
| - RB mapping info | | | | RBS-2220 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS-2221 |
| - RLC logical channel mapping indicator | | Not Present | | RBS-2222 |
| - Number of uplink RLC logical channels | | 1 | | RBS-2223 |
| - Uplink transport channel type | | E-DCH | | RBS-2224 |
| - Logical channel identity | | 3 | | RBS-2225 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-2226 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RBS-2227 |
| - DDI | | 0 (Not applicable for MAC-i/is) | | RBS-2228 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS-2229 |
| - RLC PDU size | | 144 bits | | RBS-2230 |
| - Include in scheduling info | | FALSE | | RBS-2231 |
| - MAC logical channel priority | | 3 | | RBS-2232 |
| - Downlink RLC logical channel info | | | | RBS-2233 |
| - Number of RLC logical channels | | 1 | | RBS-2234 |
| - Downlink transport channel type | | HS-DSCH | | RBS-2235 |
| - DL DCH Transport channel identity | | Not Present | | RBS-2236 |
| - DL DSCH Transport channel identity | | Not Present | | RBS-2237 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-2238 |
| - DL HS-DSCH MAC-ehs | | 3 | | RBS-2239 |
| Queue Id | | | | |
| - Logical channel identity | | 3 | | RBS-2240 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS-2241 |

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| <ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | <ul style="list-style-type: none"> 1 RBMuxOption Not Present 1 E-DCH 4 3 Fixed size 4 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 3 4 | Rel-8 | <ul style="list-style-type: none"> RBS-2242 RBS-2243 RBS-2244 RBS-2245 RBS-2246 RBS-2247 RBS-2248 RBS-2249 RBS-2250 RBS-2251 RBS-2252 RBS-2253 RBS-2254 RBS-2255 RBS-2256 RBS-2257 RBS-2258 RBS-2259 RBS-2260 RBS-2261 RBS-2262 | |
| | Downlink counter synchronization info | <ul style="list-style-type: none"> A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A31, A32, A25c, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | <ul style="list-style-type: none"> Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | <ul style="list-style-type: none"> RBS-2263 RBS-2264 RBS-2265 RBS-2266 RBS-2267 RBS-2268 RBS-2269 |
| | PDCCP ROHC target mode | <ul style="list-style-type: none"> A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 | Not Present | <ul style="list-style-type: none"> Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 | <ul style="list-style-type: none"> RBS-2270 RBS-2271 RBS-2272 RBS-2273 RBS-2274 |

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| | , A31, A32, A25c , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-9 Rel-10 Rel-11 | RBS-2275 |
| UL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10 , A17, A17a, A17f, A18 , A25a, A28 , A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-5 Rel-7 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-2276 RBS-2277 RBS-2278 RBS-2279 RBS-2280 RBS-2281 RBS-2282 RBS-2283 RBS-2284 RBS-2285 RBS-2286 RBS-2287 RBS-2288 RBS-2289 RBS-2290 RBS-2291 RBS-2292 RBS-2293 RBS-2294 RBS-2295 RBS-2296 RBS-2297 RBS-2298 |
| <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} | | Not Present FDD Not Present Normal Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set Reference to clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) 15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) 0 FDD Not Present | | |
| UL Transport channel information for all transport channels | A12, A19 | | Rel-6 Rel-7 | RBS-2299 RBS-2300 RBS-2301 RBS-2302 RBS-2303 RBS-2304 RBS-2305 RBS-2306 RBS-2307 RBS-2308 RBS-2309 RBS-2310 |
| <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information | | Not Present FDD Not Present Normal Complete reconfiguration ctfc2bit | | |

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| - CTFC | | 0 ((UL DCH RAB, DCCH)=(TF0, TF0)) | | RBS-2311 |
| - Power offset information | | Computed Gain Factors | | RBS-2312 |
| - CHOICE Gain Factors | | 1 | | RBS-2313 |
| - CTFC | | ((UL DCH RAB, DCCH)=(TF0, TF1)) | | RBS-2314 |
| - Power offset information | | Signalled Gain Factors | | RBS-2315 |
| - CHOICE Gain Factors | | 11 (below 64 kbps) | | RBS-2316 |
| - Gain factor β_c | | 9 (equal or higher than 64 kbps) when HSDPA is not configured | | RBS-2317 |
| | | 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured | | |
| | | 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | |
| - Gain factor β_d | | 15 | | RBS-2318 |
| - Reference TFC ID | | 0 | | RBS-2319 |
| - CHOICE mode | | FDD | | RBS-2320 |
| - Power offset P _{p-m} | | Not Present | | RBS-2321 |
| UL Transport channel information for all transport channels | A13, A14, A15, A16 | Not Present | Rel-6 | RBS-2322 |
| | , A17b, A17c, A17d, A17e, A19a, A19b, A20, A21, A22, A24 | | Rel-7 | RBS-2323 |
| | , A23, A28a, | | Rel-7 | RBS-2324 |
| | , A25, A25b, A26, A27, A27a, A29, A30 | | Rel-8 | RBS-2325 |
| | , A25c | | Rel-8 | RBS-2325 |
| | | | Rel-9 | RBS-2326 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | | RBS-2327 |
| | , A9, A10 | | Rel-5 | RBS-2328 |
| | , A12 | | Rel-6 | RBS-2329 |
| | , A17, A17a, A17f, A18, A19, A20, A21, A24 | | Rel-7 | RBS-2330 |
| | , A23, | | Rel-7 | RBS-2331 |
| | , A28, A29 | | Rel-8 | RBS-2332 |
| | A35, A37 | | Rel-8 | RBS-2332 |
| | A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-10 | RBS-2333 |
| | | | Rel-11 | |
| Deleted UL TrCH information | A13, A14, A15, A16 | | Rel-6 | RBS-2334 |
| | A17b, A17c, A17d, A17e, A19a, A19b, A22, A26, A27, A27a, A28a | | Rel-7 | RBS-2335 |
| | A25, A25b | | Rel-8 | RBS-2336 |
| | , A25c, A31, A32 | | Rel-9 | RBS-2337 |
| | , A33, A34, A36, A37 | | Rel-10 | RBS-2338 |
| - Uplink transport channel type | | DCH | | RBS-2338 |
| - UL transport channel identity | | 5 | | RBS-2339 |
| Deleted UL TrCH information | A30 | | Rel-8 | RBS-2339a |
| - Uplink transport channel type | | e_dch | | |
| - E-DCH MAC-d flow identity | | 1 | | |
| Added or Reconfigured UL TrCH information | A1, A3 A4, A5, A6, A7 | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH) | | RBS-2340 |
| | , A9, A10 | | Rel-5 | RBS-2341 |
| | , A17, A17a, A18, | | Rel-7 | RBS-2342 |
| | , A28 | | Rel-8 | RBS-2343 |
| - Uplink transport channel type | | DCH | | RBS-2344 |
| - UL Transport channel identity | | 1 | | RBS-2345 |
| - TFS | | | | RBS-2346 |

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| <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | Dedicated transport channels | | RBS-2347 RBS-2348 |
| | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS-2349 |
| | | Not Present | | RBS-2350 |
| | | Reference to clause 6.10 Parameter Set | | RBS-2351 |
| | | All | | RBS-2352 |
| | | | | RBS-2353 |
| | | | | RBS-2354 |
| | | | | RBS-2355 |
| | | | | RBS-2356 |
| | | | | RBS-2357 |
| | | | | RBS-2358 |
| | | | | RBS-2359 |
| | | DCH | | RBS-2360 |
| | | 5 | | RBS-2361 |
| | | Dedicated transport channels | | RBS-2362 |
| | | RBS-2363 | | |
| | | RBS-2364 | | |
| | | RBS-2365 | | |
| | | RBS-2366 | | |
| | | RBS-2367 | | |
| | | RBS-2368 | | |
| | | RBS-2369 | | |
| | | RBS-2370 | | |
| | | RBS-2371 | | |
| | | RBS-2372 | | |
| | | RBS-2373 | | |
| | | RBS-2374 | | |
| | | RBS-2375 | | |
| Added or Reconfigured UL TrCH information | A11 | 1 DCH added for DTCH | | RBS-2376 |
| <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | DCH | | RBS-2377 |
| | | 4 | | RBS-2378 |
| | | Dedicated transport channels | | RBS-2379 |
| | | | | RBS-2380 |
| | | | | RBS-2381 |
| | | | | RBS-2382 |
| | | | | RBS-2383 |
| | | | | RBS-2384 |
| | | | | RBS-2385 |
| | | | | RBS-2386 |
| | | | | RBS-2387 |
| | | | | RBS-2388 |
| | | | | RBS-2389 |
| | | | | RBS-2390 |
| | | | | RBS-2391 |
| | | RBS-2392 | | |
| Added or Reconfigured UL TrCH information | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS-2393 |
| <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format | | DCH | | RBS-2394 |
| | | 5 | | RBS-2395 |
| | | Dedicated transport channels | | RBS-2396 |
| | | | | RBS-2397 |
| | | | | RBS-2398 |
| | | | | RBS-2399 |
| | | | | RBS-2400 |
| | | | | RBS-2401 |
| | | | | RBS-2402 |
| | | | | RBS-2403 |
| | | | | RBS-2404 |
| | | | | RBS-2405 |
| | | | | RBS-2406 |
| | | | | RBS-2407 |
| | | | | RBS-2408 |

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| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2405 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2406 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2407 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2408 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2409 |
| - Uplink transport channel type | | DCH | | RBS-2410 |
| - UL Transport channel identity | | 1 | | RBS-2411 |
| - TFS | | | | RBS-2412 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-2413 |
| - Dynamic Transport format | | | | RBS-2414 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2415 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2416 |
| - Transmission Time Interval | | Not Present | | RBS-2417 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-2418 |
| - CHOICE Logical channel list | | All | | RBS-2419 |
| - Semi-static Transport Format | | | | RBS-2420 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2421 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2422 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2423 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2424 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2425 |
| - Uplink transport channel type | | DCH | | RBS-2426 |
| - UL Transport channel identity | | 2 | | RBS-2427 |
| - TFS | | | | RBS-2428 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-2429 |
| - Dynamic Transport format | | | | RBS-2430 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2431 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2432 |
| - Transmission Time Interval | | Not Present | | RBS-2433 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-2434 |
| - CHOICE Logical channel list | | All | | RBS-2435 |
| - Semi-static Transport Format | | | | RBS-2436 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2437 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2438 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2439 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2440 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2441 |
| - Uplink transport channel type | | DCH | | RBS-2442 |
| - UL Transport channel identity | | 3 | | RBS-2443 |
| - TFS | | | | RBS-2444 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-2445 |
| - Dynamic Transport format | | | | RBS-2446 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2447 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2448 |
| - Transmission Time Interval | | Not Present | | RBS-2449 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-2450 |
| - CHOICE Logical channel list | | All | | RBS-2451 |
| - Semi-static Transport Format | | | | RBS-2452 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2453 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2454 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2455 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2456 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2457 |
| Added or Reconfigured UL TrCH | A12 | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured | Rel-6 | RBS-2458 |
| information | A19 | | | |
| - Uplink transport channel type | | E-DCH | Rel-7 | RBS-2459 |
| - CHOICE UL parameters | | E-DCH | | RBS-2460 |
| - UL MAC header type | | Not present | Rel-8 | RBS-2461 |
| | | | | RBS-2462 |

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| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS-2463 |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2464 |
| - HARQ info for E-DCH | | rvtable | | RBS-2465 |
| - HARQ RV Configuration | | | | RBS-2466 |
| - Added or reconfigured E-DCH MAC-d flow | | | | RBS-2467 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-2468 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS-2469 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2470 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2471 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2472 |
| - Uplink transport channel type | | DCH | | RBS-2473 |
| - UL Transport channel identity | | 1 | | RBS-2474 |
| - TFS | | Dedicated transport channels | | RBS-2475 |
| - CHOICE Transport channel type | | | | RBS-2476 |
| - Dynamic Transport format information | | | | RBS-2477 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2478 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2479 |
| - Transmission Time Interval | | Not Present | | RBS-2480 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-2481 |
| - CHOICE Logical channel list | | All | | RBS-2482 |
| - Semi-static Transport Format information | | | | RBS-2483 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2484 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2485 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2486 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2487 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2488 |
| - Uplink transport channel type | | DCH | | RBS-2489 |
| - UL Transport channel identity | | 5 | | RBS-2490 |
| - TFS | | Dedicated transport channels | | RBS-2491 |
| - CHOICE Transport channel type | | | | RBS-2492 |
| - Dynamic Transport format information | | | | RBS-2493 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2494 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2495 |
| - Transmission Time Interval | Not Present | RBS-2496 | | |
| - Number of Transport blocks | Reference to clause 6.10 Parameter Set | RBS-2497 | | |
| - CHOICE Logical channel list | All | RBS-2498 | | |
| - Semi-static Transport Format information | | RBS-2499 | | |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | RBS-2500 | | |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | RBS-2501 | | |
| - Coding Rate | Reference to clause 6.10 Parameter Set | RBS-2502 | | |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | RBS-2503 | | |
| - CRC size | Reference to clause 6.10 Parameter Set | RBS-2504 | | |
| Added or Reconfigured UL TrCH information | A13, A14 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-6 | RBS-2505 |
| | , A17b, A17c, A17d, A17e, A19a, A20, A28a | | Rel-7 | RBS-2506 |
| | , A25, A25b, A27, A27a | | Rel-8 | RBS-2507 |
| | , A25c, A31, A32 | | Rel-9 | RBS-2508 |
| | , A33, A34, A36, A37 | | Rel-10 | RBS-2509 |
| - Uplink transport channel type | | E-DCH | | RBS-2509 |
| - CHOICE UL parameters | | E-DCH | | RBS-2510 |
| - UL MAC header type | | Not present | Rel-8 | RBS-2511 |

| Information Element | Condition | Value/remark | Version | Index | | |
|---|--------------------------|---|----------|--------------------------|----------|----------|
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS-2512 | | |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2513 | | |
| - HARQ info for E-DCH | MAC-I-FIXED, MAC-I-FLEX | rvtable (for DCCH) | Rel-8 | RBS-2514 | | |
| - HARQ RV Configuration | | | | RBS-2515 | | |
| - Added or reconfigured E-DCH MAC-d flow | | | | RBS-2516 | | |
| - E-DCH MAC-d flow identity | | | | 1 | RBS-2517 | |
| - E-DCH MAC-d flow power | | | | 0 | RBS-2518 | |
| offset | | | | 7 | RBS-2519 | |
| number of retransmissions | | | | Not Present | RBS-2520 | |
| - E-DCH MAC-d flow multiplexing list | | | | Not Present | RBS-2520 | |
| - CHOICE transmission grant type | | | | Non-scheduled grant info | RBS-2521 | |
| - Max MAC-e PDU contents size | | | | 168 bits | RBS-2522 | |
| - Max MAC-e PDU contents size | 162 bits | RBS-2523 | | | | |
| - 2 ms non-scheduled transmission grant HARQ process allocation | Not Present | RBS-2524 | | | | |
| - Added or reconfigured E-DCH MAC-d flow | (for DTCH) | RBS-2525 | | | | |
| - E-DCH MAC-d flow identity | 2 | RBS-2526 | | | | |
| - E-DCH MAC-d flow power | 0 | RBS-2527 | | | | |
| offset | 7 | RBS-2528 | | | | |
| number of retransmissions | Not Present | RBS-2529 | | | | |
| - E-DCH MAC-d flow multiplexing list | Not Present | RBS-2529 | | | | |
| - CHOICE transmission grant type | Scheduled grant info | RBS-2530 | | | | |
| Added or Reconfigured UL TrCH information | A15 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6 | RBS-2531 | | |
| - Uplink transport channel type | MAC-I-FIXED, MAC-I-FLEX | E-DCH | Rel-8 | RBS-2532 | | |
| - CHOICE UL parameters | | E-DCH | | RBS-2533 | | |
| - UL MAC header type | | Not present | | RBS-2534 | | |
| - UL MAC header type | | MAC-i/is | | RBS-2535 | | |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2536 | | |
| - HARQ info for E-DCH | | rvtable (for DCCH) | | Rel-8 | RBS-2537 | |
| - HARQ RV Configuration | | | | | RBS-2538 | |
| - Added or reconfigured E-DCH MAC-d flow | | | | | RBS-2539 | |
| - E-DCH MAC-d flow identity | | | | | 1 | RBS-2540 |
| - E-DCH MAC-d flow power | | | | | 0 | RBS-2541 |
| offset | 7 | | RBS-2542 | | | |
| number of retransmissions | Not Present | | RBS-2543 | | | |
| - E-DCH MAC-d flow multiplexing list | Not Present | | RBS-2543 | | | |
| - CHOICE transmission grant type | Non-scheduled grant info | | RBS-2544 | | | |
| - Max MAC-e PDU contents size | 162 bits | | RBS-2545 | | | |
| - Max MAC-e PDU contents size | 168 bits | Rel-8 | RBS-2546 | | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------|---|---------|----------|
| - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RBS-2547 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS-2548 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-2549 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2550 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2551 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2552 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2553 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS-2554 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-2555 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2556 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2557 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2558 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2559 |
| Added or Reconfigured UL TrCH information | A16 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6 | RBS-2560 |
| | , A19b, A21, A22 | | Rel-7 | RBS-2561 |
| - Uplink transport channel type | | E-DCH | | RBS-2562 |
| - CHOICE UL parameters | | E-DCH | | RBS-2563 |
| - UL MAC header type | | Not present | Rel-8 | RBS-2564 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS-2565 |
| - CHOICE mode | | FDD | Rel-7 | RBS-2566 |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2567 |
| - HARQ info for E-DCH | | | | RBS-2568 |
| - HARQ RV Configuration | | rvtable | | RBS-2569 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS-2570 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2571 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2572 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2573 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2574 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS-2575 |
| - Max MAC-e PDU contents size | | 162 bits | | RBS-2576 |
| - Max MAC-e PDU contents size | MAC-I-FIXED, MAC-I-FLEX | 168 bits | Rel-8 | RBS-2577 |
| - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RBS-2578 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS-2579 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-2580 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2581 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2582 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2583 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------|---|----------------|----------|
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2584 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS-2585 |
| - E-DCH MAC-d flow identity | | 4 | | RBS-2586 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2587 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2588 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2589 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2590 |
| Added or Reconfigured UL TrCH information | A23 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-7 Rel-8 | RBS-2591 |
| - Uplink transport channel type | | E-DCH | | RBS-2592 |
| - CHOICE UL parameters | | E-DCH | | RBS-2593 |
| - UL MAC header type | | Not present | Rel-8 | RBS-2594 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS-2595 |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2596 |
| - HARQ info for E-DCH | | | | RBS-2597 |
| - HARQ RV Configuration | | rvtable | | RBS-2598 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS-2599 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2600 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2601 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2602 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2603 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS-2604 |
| - Max MAC-e PDU contents size | | 162 bits | Rel-6 | RBS-2605 |
| - Max MAC-e PDU contents size | MAC-I-FIXED, MAC-I-FLEX | 168 bits | Rel-8 | RBS-2606 |
| - 2 ms non-scheduled transmission grant HARQ process allocation | | '01000000'B if 2ms TTI configured otherwise Not Present | | RBS-2607 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS-2608 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-2609 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2610 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 if 2ms TTI configured, otherwise 1 | | RBS-2611 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2612 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS-2613 |
| - Max MAC-e PDU contents size | | 546 bits | Rel-6 | RBS-2614 |
| - Max MAC-e PDU contents size | MAC-I-FIXED, MAC-I-FLEX | 552 bits | Rel-8 | RBS-2615 |
| Added or Reconfigured UL TrCH information | A26 | 1 E-DCH added with one DCCH MAC-d flow and three DTCH MAC-d flows | Rel-8 | RBS-2616 |
| - Uplink transport channel type | | E-DCH | | RBS-2617 |
| - CHOICE UL parameters | | E-DCH | | RBS-2618 |
| - UL MAC header type | | Not present | | RBS-2619 |
| - UL MAC header type | | MAC-i/is | | RBS-2620 |
| - CHOICE mode | | FDD | Rel-7 | RBS-2621 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------|---|---------|----------|
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2622 |
| - HARQ info for E-DCH | | | | RBS-2623 |
| - HARQ RV Configuration | | rvtable | | RBS-2624 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS-2625 |
| - E-DCH MAC-d flow identity | | 1 | | RBS-2626 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2627 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2628 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2629 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS-2630 |
| - Max MAC-e PDU contents size | | 168 bits | | RBS-2631 |
| - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RBS-2632 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS-2633 |
| - E-DCH MAC-d flow identity | | 2 | | RBS-2634 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2635 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2636 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2637 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2638 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS-2639 |
| - E-DCH MAC-d flow identity | | 3 | | RBS-2640 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2641 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2642 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2643 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2644 |
| - Added or reconfigured E-DCH MAC-d flow | | (for third DTCH) | | RBS-2645 |
| - E-DCH MAC-d flow identity | | 4 | | RBS-2646 |
| - E-DCH MAC-d flow power | | 0 | | RBS-2647 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2648 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2649 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2650 |
| Added or Reconfigured UL TrCH information | A29 | 1 E-DCH added with one DTCH MAC-d flow | Rel-8 | RBS-2651 |
| - Uplink transport channel type | | E-DCH | | RBS-2652 |
| - CHOICE UL parameters | | E-DCH | | RBS-2653 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS-2654 |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2655 |
| - HARQ info for E-DCH | | | | RBS-2656 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|---|---------------------------|----------------------------------|
| <ul style="list-style-type: none"> - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow | | rvtable | | RBS-2657 RBS-2658 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset | | 0 0 | | RBS-2659 RBS-2660 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2661 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2662 |
| <ul style="list-style-type: none"> - CHOICE transmission grant type | | Scheduled grant info | | RBS-2663 |
| Added or Reconfigured UL TrCH information | A30 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-8 | RBS-2664 |
| <ul style="list-style-type: none"> - Uplink transport channel type - CHOICE UL parameters - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | E-DCH E-DCH MAC-i/is | | RBS-2665 RBS-2666 RBS-2667 |
| <ul style="list-style-type: none"> - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2668 |
| <ul style="list-style-type: none"> - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow | | rvtable (for DCCH) | | RBS-2669 RBS-2670 RBS-2671 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset | | 3 0 | | RBS-2672 RBS-2673 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2674 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2675 |
| <ul style="list-style-type: none"> - CHOICE transmission grant type | | Non-scheduled grant info | | RBS-2676 |
| <ul style="list-style-type: none"> - Max MAC-e PDU contents size | | 168 bits | | RBS-2677 |
| <ul style="list-style-type: none"> - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RBS-2678 |
| <ul style="list-style-type: none"> - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS-2679 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset | | 2 0 | | RBS-2680 RBS-2681 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2682 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2683 |
| <ul style="list-style-type: none"> - CHOICE transmission grant type | | Scheduled grant info | | RBS-2684 |
| Added or Reconfigured UL TrCH information | A17f, A35, A38, A39, A40, A41, A42, A43, A44, A45 | 1 E-DCH added, 1 DCH reconfigured | Rel-7 Rel-10 Rel-11 | RBS-2685 |
| <ul style="list-style-type: none"> - Uplink transport channel type - CHOICE UL parameters - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | E-DCH E-DCH MAC-i/is | Rel-8 | RBS-2686 RBS-2687 RBS-2688 |
| <ul style="list-style-type: none"> - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RBS-2689 |
| <ul style="list-style-type: none"> - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow | | rvtable | | RBS-2690 RBS-2691 RBS-2692 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity | | 2 | | RBS-2693 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|---|--|
| - E-DCH MAC-d flow power offset | | 0 | | RBS-2694 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS-2695 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS-2696 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS-2697 |
| - Uplink transport channel type | | DCH | | RBS-2698 |
| - UL Transport channel identity | | 5 | | RBS-2699 |
| - TFS | | | | RBS-2700 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-2701 |
| - Dynamic Transport format information | | | | RBS-2702 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-2703 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-2704 |
| - Transmission Time Interval | | Not Present | | RBS-2705 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-2706 |
| - CHOICE Logical channel list | | All | | RBS-2707 |
| - Semi-static Transport Format information | | | | RBS-2708 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2709 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2710 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2711 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-2712 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-2713 |
| DL Transport channel information common for all transport channel | A1, A2, A7, A8 | | | RBS-2714 |
| - SCCPCH TFCS | | Not Present | | RBS-2715 |
| - CHOICE mode | | FDD | | RBS-2716 |
| - CHOICE DL parameters | | SameasUL | | RBS-2717 |
| DL Transport channel information common for all transport channel | A3, A4, A5, A6, A11 A10 , A12, A13, A15 , A17, A18, A17a, A17d, A17e, A17f, A19, A19a, , A25a, A25b, A26, A28 , A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-5 Rel-6 Rel-7 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-2718 RBS-2719 RBS-2720 RBS-2721 RBS-2722 RBS-2723 |
| - SCCPCH TFCS | | Not Present | | RBS-2724 |
| - CHOICE mode | | FDD | | RBS-2725 |
| - CHOICE DL parameters | | Explicit | | RBS-2726 |
| - DL DCH TFCS | | | | RBS-2727 |
| - CHOICE TFCI Signalling | | Normal | | RBS-2728 |
| - TFCI Field 1 Information | | | | RBS-2729 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS-2730 |
| - TFCS complete reconfigure | | | | RBS-2731 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | RBS-2732 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 | | RBS-2733 |
| - CTFC | | Reference to clause 6.10.2.4 Parameter Set | | RBS-2734 |
| - Power offset information | | Not Present | | RBS-2735 |
| DL Transport channel information common for all transport channel | A9 | | Rel-5 | RBS-2736 |
| - SCCPCH TFCS | | Not Present | | RBS-2737 |
| - CHOICE mode | | FDD | | RBS-2738 |
| - CHOICE DL parameters | | Explicit | | RBS-2739 |
| - DL DCH TFCS | | | | RBS-2740 |
| - CHOICE TFCI Signalling | | Normal | | RBS-2741 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|---|--|
| <ul style="list-style-type: none"> - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CTFC - Power offset information | | Complete reconfiguration ctfc2bit 0 ((DL DCH RAB, DCCH)=(TF0, TF0)) Not Present 1 ((DL DCH RAB, DCCH)=(TF0, TF1)) Not Present | | RBS-2742 RBS-2743 RBS-2744 RBS-2745 RBS-2746 RBS-2747 RBS-2748 RBS-2749 RBS-2750 |
| DL Transport channel information common for all transport channel | A14, A16 , A17b, A17c, A19b, A20, A21, A22, A24 , A23, A28a , A25, A27, A27a, A29, A30, A25c | Not Present | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 | RBS-2751 RBS-2752 RBS-2753 RBS-2754 |
| Deleted DL TrCH information | A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A12, A13 , A17, A18, A17a, A17d, A17e, A17f, A19, A19a, A20, A21, A24 , A25a, A25b, A26, A28, A29 , A35 A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-5 Rel-6 Rel-7 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-2755 RBS-2756 RBS-2757 RBS-2758 RBS-2759 RBS-2760 |
| Deleted DL TrCH information | A14, A16 A17b, A17c, A19b, A22 A25, A27, A27a, A25c, A28a , A31, A32 , A33, A34, A36, A37 | DCH 10 | Rel-6 Rel-7 Rel-9 Rel-10 | RBS-2761 RBS-2762 RBS-2763 RBS-2764 RBS-2765 RBS-2766 RBS-2767 |
| Deleted DL TrCH information | A30 | mac_ehs 1 | Rel-8 | RBS-2767a |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1 | 1 DCH added, 1 DCH reconfigured DCH 6 Same as UL DCH 1 -20 (-2.0) DCH 10 Same as UL DCH 5 -20 (-2.0) | | RBS-2768 RBS-2769 RBS-2770 RBS-2771 RBS-2772 RBS-2773 RBS-2774 RBS-2775 RBS-2776 RBS-2777 RBS-2778 RBS-2779 RBS-2780 RBS-2781 RBS-2782 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity | A3, A4, A5, A6, A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 | | RBS-2783 RBS-2784 RBS-2785 |

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| <ul style="list-style-type: none"> - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information | | Same as UL | | RBS-2786 |
| | | DCH | | RBS-2787 |
| | | 5 | | RBS-2788 |
| | | -20 (-2.0) | | RBS-2789 |
| | | DCH | | RBS-2790 |
| | | 6 | | RBS-2791 |
| | | Explicit | | RBS-2792 |
| | | Except for RAB with the symmetric DL and UL rate: Same as UL | | RBS-2793 |
| | | Dedicated transport channel | | RBS-2794 |
| | | | | RBS-2795 |
| | | | | RBS-2796 |
| | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS-2797 |
| | | Not Present | | RBS-2798 |
| | | Reference to clause 6.10 Parameter Set only including TF0 | | RBS-2799 |
| | | All | | RBS-2800 |
| | | | | RBS-2801 |
| | | | | RBS-2802 |
| | | Reference to clause 6.10 Parameter Set | | RBS-2803 |
| | | Reference to clause 6.10 Parameter Set | | RBS-2804 |
| | | Reference to clause 6.10 Parameter Set | | RBS-2805 |
| Reference to clause 6.10 Parameter Set | | RBS-2806 | | |
| Reference to clause 6.10 Parameter Set | | RBS-2807 | | |
| Reference to clause 6.10 Parameter Set | | RBS-2808 | | |
| -20 (-2.0) | | RBS-2809 | | |
| Added or Reconfigured DL TrCH | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS-2810 |
| information | | DCH | | RBS-2811 |
| - Downlink transport channel type | | 10 | | RBS-2812 |
| - DL Transport channel identity | | Same as UL | | RBS-2813 |
| - CHOICE DL parameters | | DCH | | RBS-2814 |
| - Uplink transport channel type | | 5 | | RBS-2815 |
| - UL TrCH identity | | | | RBS-2816 |
| - DCH quality target | | -20 (-2.0) | | RBS-2817 |
| - BLER Quality value | | DCH | | RBS-2818 |
| - Downlink transport channel type | | 6 | | RBS-2819 |
| - DL Transport channel identity | | Explicit | | RBS-2820 |
| - CHOICE DL parameters | | Dedicated transport channel | | RBS-2821 |
| - TFS | | | | RBS-2822 |
| - CHOICE Transport channel type | | | | RBS-2823 |
| - Dynamic transport format | | | | RBS-2824 |
| information | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS-2825 |
| - RLC Size | | | | RBS-2826 |
| - Number of TBs and TTI List | | | | RBS-2827 |
| - Dynamic transport format | | Not Present | | RBS-2828 |
| information | | Reference to clause 6.10 Parameter Set | | RBS-2829 |
| - Transmission Time Interval | | All | | RBS-2830 |
| - Number of Transport blocks | | | | RBS-2831 |
| - CHOICE Logical channel list | | Reference to clause 6.10 Parameter Set | | RBS-2832 |
| - Semi-static Transport Format | | Reference to clause 6.10 Parameter Set | | RBS-2833 |
| information | | Reference to clause 6.10 Parameter Set | | RBS-2834 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-2835 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-2836 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-2837 |
| - Rate matching attribute | | Not Present | | RBS-2838 |
| - CRC size | | DCH | | RBS-2839 |
| - DCH quality target | | 7 | | RBS-2840 |
| - BLER Quality value | | Explicit | | RBS-2841 |
| - Downlink transport channel type | | Dedicated transport channel | | RBS-2842 |
| - DL Transport channel identity | | | | RBS-2843 |
| - CHOICE DL parameters | | | | |
| - TFS | | | | |
| - CHOICE Transport channel type | | | | |
| - Dynamic transport format | | | | |

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|---|------------------|--|-------------------------|--|
| information - RLC Size - Number of TBs and TTI List - Dynamic transport format | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS-2844 RBS-2845 RBS-2846 |
| information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format | | Not Present Reference to clause 6.10 Parameter Set All | | RBS-2847 RBS-2848 RBS-2849 RBS-2850 |
| information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present DCH 8 Explicit Dedicated transport channel | | RBS-2851 RBS-2852 RBS-2853 RBS-2854 RBS-2855 RBS-2856 RBS-2857 RBS-2858 RBS-2859 RBS-2860 RBS-2861 RBS-2862 RBS-2863 |
| information - RLC Size - Number of TBs and TTI List - Dynamic transport format | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS-2864 RBS-2865 RBS-2866 |
| information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format | | Not Present Reference to clause 6.10 Parameter Set All | | RBS-2867 RBS-2868 RBS-2869 RBS-2870 |
| information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present | | RBS-2871 RBS-2872 RBS-2873 RBS-2874 RBS-2875 RBS-2876 RBS-2877 |
| Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval | A9 A12 A19 | 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set | Rel-5 Rel-6 Rel-7 | RBS-2878 RBS-2879 RBS-2880 RBS-2881 RBS-2882 RBS-2883 RBS-2884 RBS-2885 RBS-2886 RBS-2887 RBS-2888 RBS-2889 RBS-2890 RBS-2891 RBS-2892 RBS-2893 RBS-2894 RBS-2895 RBS-2896 RBS-2897 RBS-2898 RBS-2899 RBS-2900 RBS-2901 |

| Information Element | Condition | Value/remark | Version | Index |
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| <ul style="list-style-type: none"> - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE Memory | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit | | RBS-2902 RBS-2903 RBS-2904 RBS-2905 RBS-2906 RBS-2907 RBS-2908 RBS-2909 RBS-2910 RBS-2911 RBS-2912 RBS-2913 RBS-2914 RBS-2915 RBS-2916 RBS-2917 RBS-2918 RBS-2919 RBS-2920 RBS-2921 RBS-2922 RBS-2923 RBS-2924 |
| Partitioning flow <ul style="list-style-type: none"> - Added or reconfigured MAC-d - MAC-hs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info <ul style="list-style-type: none"> - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target | | (one queue) 0 0 50 16 336 0 Not present Not present | | RBS-2914 RBS-2915 RBS-2916 RBS-2917 RBS-2918 RBS-2919 RBS-2920 RBS-2921 RBS-2922 RBS-2923 RBS-2924 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE Memory Partitioning flow <ul style="list-style-type: none"> - Added or reconfigured MAC-d - MAC-hs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info <ul style="list-style-type: none"> - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target | A10 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit | Rel-5 | RBS-2925 RBS-2926 RBS-2927 RBS-2928 RBS-2929 RBS-2930 RBS-2931 RBS-2932 RBS-2933 RBS-2934 RBS-2935 RBS-2936 RBS-2937 RBS-2938 RBS-2939 RBS-2940 RBS-2941 RBS-2942 RBS-2943 RBS-2944 RBS-2945 RBS-2946 RBS-2947 RBS-2948 RBS-2949 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - TFS - CHOICE Transport channel type - Dynamic transport format information <ul style="list-style-type: none"> - RLC Size | A11 | 1 DCH for DTCH DCH 9 Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set | | RBS-2950 RBS-2951 RBS-2952 RBS-2953 RBS-2954 RBS-2955 RBS-2956 RBS-2957 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|--|
| <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0) | | RBS-2958 RBS-2959 RBS-2960 RBS-2961 RBS-2962 RBS-2963 RBS-2964 RBS-2965 RBS-2966 RBS-2967 RBS-2968 RBS-2969 RBS-2970 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory Partitioning</i> flow <ul style="list-style-type: none"> - Added or reconfigured MAC-d reconfigure list - MAC-hs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info <ul style="list-style-type: none"> - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target | A13 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit | Rel-6 | RBS-2971 RBS-2972 RBS-2973 RBS-2974 RBS-2975 RBS-2976 RBS-2977 RBS-2978 RBS-2979 RBS-2980 RBS-2981 RBS-2982 RBS-2983 RBS-2984 RBS-2985 RBS-2986 RBS-2987 RBS-2988 RBS-2989 RBS-2990 RBS-2991 RBS-2992 RBS-2993 RBS-2994 RBS-2995 RBS-2996 RBS-2997 RBS-2998 RBS-2999 RBS-3000 RBS-3001 RBS-3002 RBS-3003 RBS-3004 RBS-3005 RBS-3006 RBS-3007 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format | A19a | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit Dedicated transport channels | Rel-7 | RBS-3008 RBS-3009 RBS-3010 RBS-3011 RBS-3012 RBS-3013 RBS-3014 RBS-3015 RBS-3016 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------|--|-----------------------------|--|
| information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set | | RBS-3017 RBS-3018 RBS-3019 RBS-3020 RBS-3021 RBS-3022 RBS-3023 RBS-3024 RBS-3025 |
| information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory | | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit | | RBS-3026 RBS-3027 RBS-3028 RBS-3029 RBS-3030 RBS-3031 RBS-3032 RBS-3033 RBS-3034 RBS-3035 RBS-3036 RBS-3037 RBS-3038 RBS-3039 RBS-3040 RBS-3041 RBS-3042 RBS-3043 RBS-3044 |
| Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target | | (one queue) 0 0 50 16 336 0 Not present Not present | | |
| Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list | A14 , A20 , A31, A32 | 1 TrCH (HS-DSCH for DTCH and DCCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit | Rel-6 Rel-7 Rel-9 | RBS-3045 RBS-3046 RBS-3047 RBS-3048 RBS-3049 RBS-3050 RBS-3051 RBS-3052 RBS-3053 RBS-3054 RBS-3055 RBS-3056 RBS-3057 RBS-3058 RBS-3059 RBS-3060 RBS-3061 RBS-3062 RBS-3063 RBS-3064 RBS-3065 RBS-3066 RBS-3067 RBS-3068 RBS-3069 RBS-3070 |

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| - DCH quality target | | Not present | | RBS-3071 |
| Added or Reconfigured DL TrCH information | A15 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-6 | RBS-3072 |
| - Downlink transport channel type | | DCH | | RBS-3073 |
| - DL Transport channel identity | | 10 | | RBS-3074 |
| - CHOICE DL parameters | | Explicit | | RBS-3075 |
| - TFS | | | | RBS-3076 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-3077 |
| - Dynamic Transport format | | | | RBS-3078 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-3079 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-3080 |
| - Transmission Time Interval | | Not Present | | RBS-3081 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-3082 |
| - CHOICE Logical channel list | | All | | RBS-3083 |
| - Semi-static Transport Format | | | | RBS-3084 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-3085 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-3086 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-3087 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-3088 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-3089 |
| - DCH quality target | | | | RBS-3090 |
| - BLER Quality value | | -20 (-2.0) | | RBS-3091 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3092 |
| - DL Transport channel identity | | Not Present | | RBS-3093 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3094 |
| - HARQ Info | | | | RBS-3095 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 | | RBS-3096 |
| - CHOICE Memory | | Implicit | | RBS-3097 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS-3098 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS-3099 |
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS-3100 |
| - MAC-d Flow Identity | | 0 | | RBS-3101 |
| - T1 | | 50 | | RBS-3102 |
| - MAC-hs window size | | 16 | | RBS-3103 |
| - MAC-d PDU size Info | | | | RBS-3104 |
| - MAC-d PDU size | | 336 | | RBS-3105 |
| - MAC-d PDU size index | | 0 | | RBS-3106 |
| - MAC-hs queue Id | | 2 (for second DTCH) | | RBS-3107 |
| - MAC-d Flow Identity | | 2 | | RBS-3108 |
| - T1 | | 50 | | RBS-3109 |
| - MAC-hs window size | | 16 | | RBS-3110 |
| - MAC-d PDU size Info | | | | RBS-3111 |
| - MAC-d PDU size | | 336 | | RBS-3112 |
| - MAC-d PDU size index | | 0 | | RBS-3113 |
| - MAC-hs queue to delete list | | Not present | | RBS-3114 |
| - DCH quality target | | Not present | | RBS-3115 |
| Added or Reconfigured DL TrCH information | A16 | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH) | Rel-6 | RBS-3116 |
| | , A19b, A21 | | Rel-7 | |
| - Downlink transport channel type | | HS-DSCH | | RBS-3117 |
| - DL Transport channel identity | | Not Present | | RBS-3118 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3119 |
| - HARQ Info | | | | RBS-3120 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 | | RBS-3121 |
| - CHOICE Memory | | Parameter Set | | RBS-3122 |
| - CHOICE Memory | | Implicit | | RBS-3123 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS-3124 |
| - MAC-hs queue to add or reconfigure list | | (three queues) | | RBS-3125 |

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|--|------------------------------|---|--------------------|--------------------------|
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS-3126 |
| - MAC-d Flow Identity | | 0 | | RBS-3127 |
| - T1 | | 50 | | RBS-3128 |
| - MAC-hs window size | | 16 | | RBS-3129 |
| - MAC-d PDU size Info | | | | RBS-3130 |
| - MAC-d PDU size | | 336 | | RBS-3131 |
| - MAC-d PDU size index | | 0 | | RBS-3132 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RBS-3133 |
| - MAC-d Flow Identity | | 1 | | RBS-3134 |
| - T1 | | 50 | | RBS-3135 |
| - MAC-hs window size | | 16 | | RBS-3136 |
| - MAC-d PDU size Info | | | | RBS-3137 |
| - MAC-d PDU size | | 148 | | RBS-3138 |
| - MAC-d PDU size index | | 0 | | RBS-3139 |
| - MAC-hs queue Id | | 3 (for second DTCH) | | RBS-3140 |
| - MAC-d Flow Identity | | 3 | | RBS-3141 |
| - T1 | | 50 | | RBS-3142 |
| - MAC-hs window size | | 16 | | RBS-3143 |
| - MAC-d PDU size Info | | | | RBS-3144 |
| - MAC-d PDU size | | 112 | | RBS-3145 |
| - MAC-d PDU size index | | 0 | | RBS-3146 |
| - MAC-d PDU size | | 144 | | RBS-3147 |
| - MAC-d PDU size index | | 1 | | RBS-3148 |
| - MAC-d PDU size | | 160 | | RBS-3149 |
| - MAC-d PDU size index | | 2 | | RBS-3150 |
| - MAC-d PDU size | | 176 | | RBS-3151 |
| - MAC-d PDU size index | | 3 | | RBS-3152 |
| - MAC-d PDU size | | 192 | | RBS-3153 |
| - MAC-d PDU size index | | 4 | | RBS-3154 |
| - MAC-d PDU size | | 224 | | RBS-3155 |
| - MAC-d PDU size index | | 5 | | RBS-3156 |
| - MAC-d PDU size | | 296 | | RBS-3157 |
| - MAC-d PDU size index | | 6 | | RBS-3158 |
| - MAC-d PDU size | | 344 | | RBS-3159 |
| - MAC-d PDU size index | | 7 | | RBS-3160 |
| - MAC-hs queue to delete list | | Not present | | RBS-3161 |
| - DCH quality target | | Not present | | RBS-3162 |
| Added or Reconfigured DL TrCH information | A17, A17a, A18 , A25a | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 Rel-8 | RBS-3163 RBS-3164 |
| - Downlink transport channel type | | DCH | | RBS-3165 |
| - DL Transport channel identity | | 10 | | RBS-3166 |
| - CHOICE DL parameters | | Same as UL | | RBS-3167 |
| - Uplink transport channel type | | DCH | | RBS-3168 |
| - UL TrCH identity | | 5 | | RBS-3169 |
| - DCH quality target | | | | RBS-3170 |
| - BLER Quality value | | -20 (-2.0) | | RBS-3171 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3172 |
| - DL Transport channel identity | | Not Present | | RBS-3173 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3174 |
| - HARQ Info | | | | RBS-3175 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 | | RBS-3176 |
| - CHOICE Memory | | Parameter Set Implicit | | RBS-3177 |
| <i>Partitioning</i> | | | | |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS-3178 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3179 |
| - MAC-ehs queue to add or reconfigure list | | (one queue) | | RBS-3180 |
| - MAC-ehs queue Id | | 0 | | RBS-3181 |
| - T1 | | 50 | | RBS-3182 |
| - MAC-ehs window size | | 16 | | RBS-3183 |
| - MAC-ehs queue to delete list | | Not present | | RBS-3184 |
| - DCH quality target | | Not present | | RBS-3185 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|---|--------------------------|----------|
| Added or Reconfigured DL TrCH information | A17b, A17c, A28a A25c , A33, A34, A36, A37 | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-7 Rel-9 Rel-10 | RBS-3186 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3187 |
| - DL Transport channel identity | | Not Present | | RBS-3188 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3189 |
| - HARQ Info | | | | RBS-3190 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 Parameter Set | | RBS-3191 |
| - CHOICE <i>Memory</i> | | Implicit | | RBS-3192 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-3193 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3194 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS-3195 |
| - MAC-ehs queue Id | | 0 (for DTCH) | | RBS-3196 |
| - T1 | | 50 | | RBS-3197 |
| - MAC-ehs window size | | 16 | | RBS-3198 |
| - MAC-ehs queue Id | | 1 (for DCCH) | | RBS-3199 |
| - T1 | | 50 | | RBS-3200 |
| - MAC-hs window size | | 16 | | RBS-3201 |
| - MAC-ehs queue to delete | | Not present | | RBS-3202 |
| list | | | | |
| - DCH quality target | | Not present | | RBS-3203 |
| Added or Reconfigured DL TrCH information | A17d, A17e, A17f , A25b | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 Rel-8 | RBS-3204 |
| - Downlink transport channel type | | DCH | | RBS-3205 |
| - DL Transport channel identity | | 10 | | RBS-3206 |
| - CHOICE DL parameters | | Explicit | | RBS-3207 |
| - TFS | | | | RBS-3208 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS-3209 |
| - Dynamic Transport format | | | | RBS-3210 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS-3212 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS-3213 |
| - Transmission Time Interval | | Not Present | | RBS-3214 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS-3215 |
| - CHOICE Logical channel list | | All | | RBS-3216 |
| - Semi-static Transport Format | | | | RBS-3217 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS-3218 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS-3219 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS-3220 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS-3221 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS-3222 |
| - DCH quality target | | | | RBS-3223 |
| - BLER Quality value | | -20 (-2.0) | | RBS-3224 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3225 |
| - DL Transport channel identity | | Not Present | | RBS-3226 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3227 |
| - HARQ Info | | | | RBS-3228 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 Parameter Set | | RBS-3229 |
| - CHOICE <i>Memory</i> | | Implicit | | RBS-3230 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-3231 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3232 |
| - MAC-ehs queue to add or reconfigure list | | (one queue) | | RBS-3233 |
| - MAC-ehs queue Id | | 0 | | RBS-3234 |
| - T1 | | 50 | | RBS-3235 |
| - MAC-ehs window size | | 16 | | RBS-3236 |
| - MAC-ehs queue to delete | | Not present | | RBS-3237 |
| list | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|----------------|----------|
| - DCH quality target | | Not present | | RBS-3238 |
| Added or Reconfigured DL TrCH information | A22 | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH) | Rel-7 | RBS-3239 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3240 |
| - DL Transport channel identity | | Not Present | | RBS-3241 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3242 |
| - HARQ Info | | | | RBS-3243 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 | | RBS-3244 |
| - CHOICE <i>Memory</i> | | Parameter Set | | |
| | | Implicit | | RBS-3245 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-3246 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3247 |
| - MAC-ehs queue to add or reconfigure list | | (three queues) | | RBS-3248 |
| - MAC-ehs queue Id | | 0 (for first DTCH) | | RBS-3249 |
| - T1 | | 50 | | RBS-3250 |
| - MAC-ehs window size | | 16 | | RBS-3251 |
| - MAC-ehs queue Id | | 1 (for DCCH) | | RBS-3252 |
| - T1 | | 50 | | RBS-3253 |
| - MAC-ehs window size | | 16 | | RBS-3254 |
| - MAC-ehs queue Id | | 3 (for second DTCH) | | RBS-3255 |
| - T1 | | 50 | | RBS-3256 |
| - MAC-ehs window size | | 16 | | RBS-3257 |
| - MAC-ehs queue to delete | | Not present | | RBS-3258 |
| list | | | | |
| - DCH quality target | | Not present | | RBS-3259 |
| Added or Reconfigured DL TrCH information | A23 | 1 TrCH (HS-DSCH for DTCHs and DCCH) | Rel-7 Rel-8 | RBS-3260 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3261 |
| - DL Transport channel identity | | Not Present | | RBS-3262 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3263 |
| - HARQ Info | | | | RBS-3264 |
| - Number of Processes | | Reference to clause 6.10 Parameter Set | | RBS-3265 |
| - CHOICE <i>Memory</i> | | Implicit | | RBS-3266 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-3267 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3268 |
| - MAC-ehs queue to add or reconfigure list | | (two queues) | | RBS-3269 |
| - MAC-ehs queue Id | | 0 (for DTCH) | | RBS-3270 |
| - T1 | | 50 | | RBS-3271 |
| - MAC-ehs window size | | 16 | | RBS-3272 |
| - MAC-ehs queue Id | | 1 (for DCCH) | | RBS-3273 |
| - T1 | | 50 | | RBS-3274 |
| - MAC-ehs window size | | 16 | | RBS-3275 |
| - MAC-ehs queue to delete | | Not present | | RBS-3276 |
| list | | | | |
| - DCH quality target | | Not present | | RBS-3277 |
| Added or Reconfigured DL TrCH information | A25 | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-8 | RBS-3278 |
| - Downlink transport channel type | | HS-DSCH | | RBS-3279 |
| - DL Transport channel identity | | Not Present | | RBS-3280 |
| - CHOICE DL parameters | | HS-DSCH | | RBS-3281 |
| - HARQ Info | | | | RBS-3282 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 | | RBS-3283 |
| - CHOICE <i>Memory</i> | | Parameter Set | | |
| | | Implicit | | RBS-3284 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS-3285 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS-3286 |
| - MAC-ehs queue to add or reconfigure list | | (two queues) | | RBS-3287 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|--|
| <ul style="list-style-type: none"> - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue to delete | | 0 (for DTCH) 50 16 1 (for DCCH) 50 16 Not present | | RBS-3288 RBS-3289 RBS-3290 RBS-3291 RBS-3292 RBS-3293 RBS-3294 |
| list | | Not present | | RBS-3295 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE Memory <i>Partitioning</i> <ul style="list-style-type: none"> - CHOICE DL MAC header type <ul style="list-style-type: none"> - Added or reconfigured MAC-ehs reordering queue <ul style="list-style-type: none"> - MAC-ehs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue to delete | A28 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit MAC-ehs (one queue) 0 50 32 Not present | Rel-8 | RBS-3296 RBS-3297 RBS-3298 RBS-3299 RBS-3300 RBS-3301 RBS-3302 RBS-3303 RBS-3304 RBS-3305 RBS-3306 RBS-3307 RBS-3308 RBS-3309 RBS-3310 RBS-3311 RBS-3312 RBS-3313 RBS-3314 RBS-3315 RBS-3316 |
| list | | Not present | | RBS-3317 |
| Added or Reconfigured DL TrCH information list <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE Memory <i>Partitioning</i> <ul style="list-style-type: none"> - CHOICE DL MAC header type <ul style="list-style-type: none"> - Added or reconfigured MAC-ehs reordering queue <ul style="list-style-type: none"> - MAC-ehs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-ehs queue Id - T1 - MAC-ehs window size | A24, A29 | 1 TrCH (HS-DSCH for DTCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10 Parameter Set Implicit MAC-ehs (one queue) 2 (for DTCH) 50 16 Not present | | RBS-3318 RBS-3319 RBS-3320 RBS-3321 RBS-3322 RBS-3323 RBS-3324 RBS-3325 RBS-3326 RBS-3327 RBS-3328 RBS-3329 RBS-3330 RBS-3331 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format | A26 | 2 TrCHs (DCH for DCCH and HS-DSCH for 3 DTCHs) DCH 10 Explicit Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present | Rel-8 | RBS-3332 RBS-3333 RBS-3334 RBS-3335 RBS-3336 RBS-3337 RBS-3338 RBS-3339 RBS-3340 RBS-3341 |
| <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|---|
| <ul style="list-style-type: none"> - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory</i> | | <p>Reference to clause 6.10 Parameter Set All</p> <p>Reference to clause 6.10 Parameter Set</p> <p>Reference to clause 6.10 Parameter Set</p> <p>Reference to clause 6.10 Parameter Set</p> <p>Reference to clause 6.10 Parameter Set</p> <p>Reference to clause 6.10 Parameter Set</p> <p>-20 (-2.0)</p> <p>HS-DSCH</p> <p>Not Present</p> <p>HS-DSCH</p> <p>Reference to clause 6.10.2.4.5 Parameter Set Implicit</p> <p>MAC-ehs</p> <p>(three queues)</p> <p>2 (for first DTCH)</p> <p>50</p> <p>16</p> <p>3 (for second DTCH)</p> <p>50</p> <p>16</p> <p>4 (for third DTCH)</p> <p>50</p> <p>16</p> <p>Not present</p> | | <p>RBS-3342</p> <p>RBS-3343</p> <p>RBS-3344</p> <p>RBS-3345</p> <p>RBS-3346</p> <p>RBS-3347</p> <p>RBS-3348</p> <p>RBS-3349</p> <p>RBS-3350</p> <p>RBS-3351</p> <p>RBS-3352</p> <p>RBS-3353</p> <p>RBS-3354</p> <p>RBS-3355</p> <p>RBS-3356</p> <p>RBS-3357</p> <p>RBS-3358</p> <p>RBS-3359</p> <p>RBS-3360</p> <p>RBS-3361</p> <p>RBS-3362</p> <p>RBS-3363</p> <p>RBS-3364</p> <p>RBS-3365</p> <p>RBS-3366</p> <p>RBS-3367</p> <p>RBS-3368</p> <p>RBS-3369</p> <p>RBS-3370</p> <p>RBS-3371</p> |
| <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory</i> <p><i>Partitioning</i></p> <ul style="list-style-type: none"> - CHOICE <i>DL MAC header type</i> - Added or reconfigured MAC-ehs reordering queue <ul style="list-style-type: none"> - MAC-ehs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue Id <ul style="list-style-type: none"> - T1 - MAC-ehs window size - MAC-ehs queue Id <ul style="list-style-type: none"> - T1 - MAC-ehs window size - DCH quality target | A27, A27a | <p>1 TrCH (HS-DSCH for 2 DTCHs and DCCH)</p> <p>HS-DSCH</p> <p>Not Present</p> <p>HS-DSCH</p> <p>Reference to clause 6.10.2.4.5 Parameter Set Implicit</p> <p>MAC-ehs</p> <p>(two queues)</p> <p>0 (for first DTCH)</p> <p>50</p> <p>16</p> <p>1 (for DCCH)</p> <p>50</p> <p>16</p> <p>Not present</p> | Rel-8 | <p>RBS-3372</p> <p>RBS-3373</p> <p>RBS-3374</p> <p>RBS-3375</p> <p>RBS-3376</p> <p>RBS-3377</p> <p>RBS-3378</p> <p>RBS-3379</p> <p>RBS-3380</p> <p>RBS-3381</p> <p>RBS-3382</p> <p>RBS-3383</p> <p>RBS-3384</p> <p>RBS-3385</p> <p>RBS-3386</p> <p>RBS-3387</p> <p>RBS-3388</p> |
| <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory</i> <p><i>Partitioning</i></p> | A30 | <p>1 TrCH (HS-DSCH for DTCH and DCCH)</p> <p>HS-DSCH</p> <p>Not Present</p> <p>HS-DSCH</p> <p>Reference to clause 6.10.2.4.5 Parameter Set Implicit</p> | Rel-8 | <p>RBS-3389</p> <p>RBS-3390</p> <p>RBS-3391</p> <p>RBS-3392</p> <p>RBS-3393</p> <p>RBS-3394</p> <p>RBS-3395</p> |

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|--|---|---|---|----------------------|
| <ul style="list-style-type: none"> - CHOICE <i>DL MAC header type</i> - Added or reconfigured MAC-ehs reordering queue - MAC-hs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue Id - T1 - MAC-hs window size - MAC-ehs queue to delete list - DCH quality target | <p>A35 A38, A39, A40, A41, A42, A43, A44, A45</p> <p>A33, A34, A35, A36, A37</p> | MAC-ehs | <p>Rel-10 Rel-11</p> <p>Rel-10</p> | RBS-3396 RBS-3397 |
| | | (two queues) | | RBS-3398 |
| | | 2 (for DTCH) | | RBS-3399 |
| | | 50 | | RBS-3400 |
| | | 16 | | RBS-3401 |
| | | 3 (for DCCH) | | RBS-3402 |
| | | 50 | | RBS-3403 |
| | | 16 | | RBS-3404 |
| | | Not present | | RBS-3405 |
| | | Not present | | RBS-3406 |
| | | 2 TrCh (DCH for DCCH and HS-DSCH for DTCH) | | RBS-3407 |
| | | DCH | | RBS-3408 |
| | | 10 | | RBS-3409 |
| | | Same as UL | | RBS-3410 |
| | | DCH | | RBS-3411 |
| 5 | RBS-3412 | | | |
| <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE <i>Memory</i> <p><i>Partitioning</i></p> <ul style="list-style-type: none"> - CHOICE <i>DL MAC header type</i> - Added or reconfigured MAC-ehs reordering queue - MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - DCH quality target | <p>A33, A34, A35, A36, A37</p> | DCH | <p>Rel-10</p> | RBS-3412a |
| | | 5 | | RBS-3413 |
| | | HS-DSCH | | RBS-3414 |
| | | Not Present | | RBS-3415 |
| | | HS-DSCH | | RBS-3416 |
| | | Reference to clause 6.10 Parameter Set Implicit | | RBS-3417 |
| | | Reference to clause 6.10 Parameter Set Implicit | | RBS-3418 |
| | | Reference to clause 6.10 Parameter Set Implicit | | RBS-3419 |
| | | MAC-ehs | | RBS-3420 |
| | | MAC-ehs | | RBS-3421 |
| | | (one queue) | | RBS-3422 |
| | | 0 (for DTCH) | | RBS-3423 |
| | | 50 | | RBS-3424 |
| | | 64 | | RBS-3425 |
| | | Not present | | RBS-3426 |
| <p>Frequency info</p> <ul style="list-style-type: none"> - UARFCN uplink (Nu) - UARFCN downlink (Nd) | <p>A1, A2, A3, A4, A5, A7, A8, 11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A30, A25c</p> | <p>Reference to clause 5.1 Test frequencies. This IE should be present, if the default duplex distance defined for the operating frequency band is not used and frequency is different from the current frequency, otherwise set to Not Present.</p> <p>Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.</p> | <p>Rel-5 Rel-6</p> <p>Rel-7</p> <p>Rel-7 Rel-8</p> <p>Rel-9</p> | RBS-3438 |
| | | | | RBS-3439 |
| | | | | RBS-3440 |
| | | | | RBS-3441 |
| | | | | RBS-3442 |
| | | | | RBS-3443 |
| | | | | RBS-3444 |
| | | | | RBS-3445 |
| | | | | RBS-3446 |
| | | | | RBS-3446 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|--|--|
| Frequency info | A6 , A29 , A31, A32 , A33, A34, A35, A36, A37 A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-8 Rel-9 Rel-10 Rel-11 | RBS-3447 RBS-3448 RBS-3449 |
| DTX-DRX timing information CHOICE <i>timing</i> - New timing - Enabling Delay - UE DTX DRX Offset DTX-DRX Information - CHOICE <i>E-DCH TTI length</i> - UE DTX cycle 1 - UE DTX cycle 2 - MAC DTX cycle - Inactivity Threshold for UE DTX cycle 2 - UE DTX long preamble length - MAC Inactivity Threshold - CQI DTX Timer - UE DPCCH burst_1 - UE DPCCH burst_2 DRX Information - UE DRX cycle - Inactivity Threshold for UE DRX cycle - Inactivity Threshold for UE Grant Monitoring - UE DRX Grant Monitoring Uplink DPCCH slot format information HS-SCCH less information | A20, A21 , A23 | 0 1 if 2ms TTI selected, otherwise 0 Unless stated otherwise, this should be set to 2ms if the UE supports 2ms TTI, or 10ms if the UE does not support 2ms TTI. 8 if 2ms TTI selected, otherwise 10 16 if 2ms TTI selected, otherwise 20 8 if 2ms TTI selected, otherwise 10 32 if 2ms TTI selected, otherwise 8 4 1 if 2ms TTI selected, otherwise 8 32 1 1 8 if 2ms TTI selected, otherwise 10 32 32 if 2ms TTI selected, otherwise 8 TRUE 1 Not Present | Rel-7 Rel-7 Rel-8 | RBS-3450 RBS-3451 RBS-3452 RBS-3453 RBS-3454 RBS-3455 RBS-3456 RBS-3457 RBS-3458 RBS-3459 RBS-3460 RBS-3461 RBS-3462 RBS-3463 RBS-3464 RBS-3465 RBS-3466 RBS-3467 RBS-3468 RBS-3469 RBS-3470 RBS-3471 RBS-3472 RBS-3473 |
| MIMO parameters - MIMO operation - CHOICE mode - MIMO N_cqi_typeA/M_cqi ratio - MIMO pilot configuration - CHOICE Second CPICH pattern - Channelisation code | A28a , A28 | start FDD 1/1 Antenna1 S-CPICH 12 | Rel-7 Rel-8 | RBS-3474 RBS-3475 RBS-3476 RBS-3477 RBS-3478 RBS-3479 RBS-3480 |
| MIMO parameters - MIMO operation - CHOICE mode - MIMO N_cqi_typeA/M_cqi ratio - MIMO pilot configuration -CHOICE Second CPICH pattern - Channelisation code - Power Offset for S-CPICH for MIMO MIMO - Precoding weight set restriction | A31 , A34 | start FDD 1/1 Antenna1 S-CPICH 13 0 True | Rel-9 Rel-10 | RBS-3481 RBS-3482 RBS-3483 RBS-3484 RBS-3485 RBS-3486 RBS-3487 RBS-3488 RBS-3489 |
| MIMO parameters - MIMO operation - CHOICE mode - MIMO N_cqi_typeA/M_cqi ratio - MIMO pilot configuration -CHOICE Second CPICH pattern - Channelisation code - Power Offset for S-CPICH for MIMO | A32, A33 | start FDD 1/1 Antenna1 S-CPICH 29 0 | Rel-9 Rel-10 | RBS-3490 RBS-3491 RBS-3492 RBS-3493 RBS-3494 RBS-3495 RBS-3496 RBS-3497 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|--|---|--|
| - Precoding weight set restriction | | True | | RBS-3498 |
| Maximum allowed UL TX power | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | 33dBm | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-3499 RBS-3500 RBS-3501 RBS-3502 RBS-3503 RBS-3504 RBS-3505 RBS-3506 |
| Maximum allowed UL TX power | A5, A6 | Not Present | | RBS-3507 |
| CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - <input type="checkbox"/> NACK - <input type="checkbox"/> NACK - Ack-Nack repetition factor - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Number of TPC bits | A1, A2, A3, A4, A7, A8, A11 | Uplink DPCH info -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present | Rel-5 and earlier Rel-5 Rel-5 Rel-5 Rel-7 | RBS-3508 RBS-3509 RBS-3510 RBS-3511 RBS-3512 RBS-3513 RBS-3514 RBS-3515 RBS-3516 RBS-3517 RBS-3518 RBS-3519 RBS-3520 RBS-3521 RBS-3522 RBS-3523 RBS-3524 RBS-3525 |
| CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - <input type="checkbox"/> ACK - <input type="checkbox"/> NACK - Ack-Nack repetition factor - HARQ_preamble_mode - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit | A9, A10, A17, A17a, A18, A25a, A28 | Uplink DPCH info -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | Rel-5 Rel-7 Rel-8 Rel-6 | RBS-3526 RBS-3527 RBS-3528 RBS-3529 RBS-3530 RBS-3531 RBS-3532 RBS-3533 RBS-3534 RBS-3535 RBS-3536 RBS-3537 RBS-3538 RBS-3539 RBS-3540 RBS-3541 RBS-3542 RBS-3543 RBS-3544 RBS-3545 |
| CHOICE channel requirement | A5,A6 | Not Present | Rel-5 and earlier | RBS-3546 |
| Uplink DPCH info | A12, A19, A35 | | Rel-6 Rel-7 Rel-10 | RBS-3547 RBS-3548 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|----------|----------|
| <ul style="list-style-type: none"> - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - <input type="checkbox"/>ACK - <input type="checkbox"/>NACK - Ack-Nack repetition factor - HARQ_preamble_mode - Scrambling code type - Scrambling code number - Number of DPDCH <ul style="list-style-type: none"> - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Number of TPC bits | A38, A39, A40, A41, A42, A43, A44, A45 | <ul style="list-style-type: none"> -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present | Rel-11 | RBS-3549 |
| | | | RBS-3550 | |
| | | | RBS-3551 | |
| | | | RBS-3552 | |
| | | | RBS-3553 | |
| | | | RBS-3554 | |
| | | | RBS-3555 | |
| | | | RBS-3556 | |
| | | | RBS-3557 | |
| | | | RBS-3558 | |
| | | | RBS-3559 | |
| | | | RBS-3560 | |
| | | | RBS-3561 | |
| | | | RBS-3562 | |
| | | | RBS-3563 | |
| RBS-3564 | | | | |
| RBS-3565 | | | | |
| RBS-3566 | | | | |
| Uplink DPCH info | A13, A14, A15, A16, A17b, A17c, A17d, A17e, A17f A19a, A19b, A20, A21, A22, A23, A28a, A25, A25b, A26, A27, A27a, A30, A25c, A33, A34, A36, A37 | <ul style="list-style-type: none"> -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) 0 Not Present FALSE Not Present Not Present Not Present | Rel-6 | RBS-3567 |
| | | | Rel-7 | RBS-3568 |
| | | | Rel-7 | RBS-3569 |
| | | | Rel-8 | RBS-3570 |
| | | | Rel-8 | RBS-3571 |
| | | | Rel-9 | RBS-3572 |
| | | | Rel-10 | RBS-3573 |
| | | | | RBS-3574 |
| | | | | RBS-3575 |
| | | | | RBS-3576 |
| | | | | RBS-3577 |
| | | | | RBS-3578 |
| | | | | RBS-3579 |
| | | | | RBS-3580 |
| | | | | RBS-3581 |
| | RBS-3582 | | | |
| | RBS-3583 | | | |
| | RBS-3584 | | | |
| | RBS-3585 | | | |
| | RBS-3586 | | | |
| | RBS-3587 | | | |
| | RBS-3588 | | | |
| | RBS-3589 | | | |
| Uplink DPCH info | A24, A29 | Not Present | Rel-7 | RBS-3590 |
| Uplink DPCH info | A31, A32 | | Rel-9 | RBS-3591 |
| - Uplink DPCH power control info | | | | RBS-3592 |
| - DPCCH power offset | | -40 (-80dB) | | RBS-3593 |
| - PC Preamble | | 1 frame | | RBS-3594 |
| - SRB delay | | 7 frames | | RBS-3595 |
| - Power Control Algorithm | | Algorithm1 | | RBS-3596 |
| - TPC step size | | 0 (1dB) | | RBS-3597 |
| - ΔACK | | 3 | | RBS-3598 |
| - ΔNACK | | 3 | | RBS-3599 |
| - Ack-Nack repetition factor | | 1 | | RBS-3600 |
| - HARQ_preamble_mode | | 0 | | RBS-3601 |
| - Scrambling code type | | Short | | RBS-3602 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBS-3603 |
| - Number of DPDCH | | Not Present(1) | | RBS-3604 |
| - spreading factor | | Reference to clause 6.10 Parameter Set | | RBS-3605 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | RBS-3606 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|--|--|
| - Number of FBI bit | | Reference to clause 6.10 Parameter Set | | RBS-3607 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBS-3608 |
| - Number of TPC bits | | Not Present | | RBS-3609 |
| E-DCH info | A12, A13, A14, A15, A16, A17b, A17c, A17d, A17e, , A17f A20, A21, A22, A23, A25, A25b, A26, A27, A30, A25c, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-3610 RBS-3611 RBS-3612 RBS-3613 RBS-3614 |
| - MAC- e/es reset indicator | | TRUE | | RBS-3615 |
| - E-DPCCH info | | | | RBS-3616 |
| - E-DPCCH/DPCCH power offset | | 0 | | RBS-3617 |
| - Happy bit delay condition | | 100 ms | | RBS-3618 |
| - E-TFC Boost Info | | Not Present | Rel-7 | RBS-3619 |
| - E-DPDCH power interpolation | | Not Present | Rel-7 | RBS-3620 |
| - E-DPDCH info | | | | RBS-3621 |
| - E-TFCI table index | | 0 | | RBS-3622 |
| - E-DCH minimum set E-TFCI | | 9 | | RBS-3623 |
| - Reference E-TFCIs | | 2 E-TFCIs | | RBS-3624 |
| - Reference E-TFCI | | 11 | | RBS-3625 |
| - Reference E-TFCI PO | | 4 | | RBS-3626 |
| - Reference E-TFCI | | 83 | | RBS-3627 |
| - Reference E-TFCI PO | | 16 | | RBS-3628 |
| - Maximum channelisation codes | | 2sf4 | | RBS-3629 |
| - PLnon-max | | 0.84 | | RBS-3630 |
| - Scheduling Information | | | | RBS-3631 |
| Configuration | | | | |
| - Periodicity for Scheduling Info – no grant | | Not present | | RBS-3632 |
| - Periodicity for Scheduling Info – grant | | Not present | | RBS-3633 |
| - Power Offset for Scheduling Info | | 0 | | RBS-3634 |
| - 3-Index-Step Threshold | | Not present | | RBS-3635 |
| - 2-Index-Step Threshold | | Not present | | RBS-3636 |
| - Scheduled Transmission configuration | | | | RBS-3637 |
| - 2ms scheduled transmission grant | | Not present | | RBS-3638 |
| HARQ process allocation | | | | |
| - Serving Grant | | Not present | | RBS-3639 |
| - UL 16QAM settings | | Not Present | Rel-7 | RBS-3640 |
| E-DCH info | A19, A27a | | Rel-7 Rel-8 | RBS-3641 RBS-3642 |
| - MAC- e/es reset indicator | | TRUE | | RBS-3643 |
| - E-DPCCH info | | | | RBS-3644 |
| - E-DPCCH/DPCCH power offset | | 0 | | RBS-3645 |
| - Happy bit delay condition | | 100 ms | | RBS-3646 |
| - E-TFC Boost Info | | Not Present | Rel-7 | RBS-3647 |
| - E-DPDCH power interpolation | | Not Present | Rel-7 | RBS-3648 |
| - E-DPDCH info | | | | RBS-3649 |
| - E-TFCI table index | | 0 | | RBS-3650 |
| - E-DCH minimum set E-TFCI | | 9 | | RBS-3651 |
| - Reference E-TFCIs | | 2 E-TFCIs | | RBS-3652 |
| - Reference E-TFCI | | 11 | | RBS-3653 |
| - Reference E-TFCI PO | | 4 | | RBS-3654 |
| - Reference E-TFCI | | 83 | | RBS-3655 |
| - Reference E-TFCI PO | | 16 | | RBS-3656 |
| - Maximum channelisation codes | | 2sf2and2sf4 | | RBS-3657 |
| - PLnon-max | | 0.84 | | RBS-3658 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------------------------|--|---------|----------|
| - Scheduling Information Configuration | | | | RBS-3659 |
| - Periodicity for Scheduling Info – no grant | | Not present | | RBS-3660 |
| - Periodicity for Scheduling Info – grant | | Not present | | RBS-3661 |
| - Power Offset for Scheduling Info | | 0 | | RBS-3662 |
| - 3-Index-Step Threshold | | Not present | | RBS-3663 |
| - 2-Index-Step Threshold | | Not present | | RBS-3664 |
| - Scheduled Transmission configuration | | | | RBS-3665 |
| - 2ms scheduled transmission grant | | Not present | | RBS-3666 |
| HARQ process allocation | | | | |
| - Serving Grant | | Not present | | RBS-3667 |
| -UL 16QAM settings | | | Rel-7 | RBS-3668 |
| -BetaEd gain E-AGCH table selection | | 1 | | RBS-3669 |
| E-DCH info | A19a, A19b | | Rel-7 | RBS-3670 |
| | | | | RBS-3671 |
| | | | | RBS-3672 |
| - MAC- e/es reset indicator | | TRUE | | |
| - E-DPCCH info | | 0 | | |
| - E-DPCCH/DPCCH power offset | | 100 ms | Rel-7 | |
| - Happy bit delay condition | | Not Present | Rel-7 | |
| - E-TFC Boost Info | | Not Present | | |
| - E-DPDCH power interpolation | | | | |
| - E-DPDCH info | | | | |
| - E-TFCI table index | | 0 | | |
| - E-DCH minimum set E-TFCI | | 10 | | |
| - Reference E-TFCIs | | 3 E-TFCIs | | |
| - Reference E-TFCI | | 105 | | |
| - Reference E-TFCI PO | | 12 | | |
| - Reference E-TFCI | | 116 | | |
| - Reference E-TFCI PO | | 14 | | |
| - Reference E-TFCI | | 127 | | |
| - Reference E-TFCI PO | | 16 | | |
| - Maximum channelisation codes | | 2sf2and2sf4 | | |
| - PLnon-max | | 0.84 | | |
| - Scheduling Information Configuration | | | | |
| - Periodicity for Scheduling Info – no grant | | Not present | | |
| - Periodicity for Scheduling Info – grant | | Not present | | |
| - Power Offset for Scheduling Info | | 0 | | |
| - 3-Index-Step Threshold | | Not present | | |
| - 2-Index-Step Threshold | | Not present | | |
| - Scheduled Transmission configuration | | Not present | | |
| - 2ms scheduled transmission grant | | Not present | | |
| HARQ process allocation | | | | |
| - Serving Grant | | Not present | Rel-7 | |
| -UL 16QAM settings | | | | |
| -BetaEd gain E-AGCH table selection | | 1 | | |
| E-DCH info | A24, A29 | Not Present | Rel-7 | RBS-3673 |
| Uplink secondary cell info FDD | , A31, A32, A33, A34, A35, A36, A37 | Not Present | Rel-8 | RBS-3674 |
| | | | Rel-9 | RBS-3675 |
| | | | Rel-10 | |
| Uplink secondary cell info FDD | A25c | | Rel-9 | RBS-3676 |
| - Secondary serving E-DCH cell info | | | | RBS-3677 |
| - Primary E-RNTI | | '1010 1010 1010 1011' | | RBS-3678 |
| - Secondary E-RNTI | | Not Present | | RBS-3679 |
| - Secondary E-DCH info common | | | | RBS-3680 |
| - Frequency info | | | | RBS-3681 |
| - UARFCN uplink (Nu) | | Reference to clause 5.1 Test frequencies | | RBS-3682 |

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|--|---|---|----------------------------------|--|
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-3683 |
| - Scrambling code type | | Long | | RBS-3684 |
| - Scrambling code number | | 0 | | RBS-3685 |
| - 2ms scheduled transmission grant HARQ process allocation | | Not Present | | RBS-3686 |
| - Serving Grant | | | | RBS-3687 |
| - Primary/Secondary Grant Selector | | Primary | | RBS-3688 |
| - Minimum reduced E-DPDCH gain factor. | | 21/15 | | RBS-3689 |
| - E-DCH minimum set E-TFCI | | 1 | | RBS-3690 |
| - DPCCH Power offset for secondary UL frequency | | 0 dB | | RBS-3691 |
| - PC Preamble | | 0 frame | | RBS-3692 |
| - Downlink information per radio link list on secondary UL frequency | | | | RBS-3693 |
| - Downlink information for each radio link on secondary UL frequency | | 1 | | RBS-3694 |
| - Primary CPICH info | | | | RBS-3695 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-3696 |
| - Cell ID | | Not Present | | RBS-3697 |
| - Downlink F-DPCH info for each RL on secondary UL frequency | | | | RBS-3698 |
| - Downlink F-DPCH info for each RL | | | | RBS-3699 |
| - Primary CPICH usage for channel estimate | | | | RBS-3700 |
| - F-DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-3701 |
| - F-DPCH slot format | | 3 if UE supports enhanced F-DPCH, otherwise Not Present | | RBS-3702 |
| - Secondary CPICH info | | Not Present | | RBS-3703 |
| - Secondary scrambling code | | Not Present | | RBS-3704 |
| - Code number | | 11 | | RBS-3705 |
| - TPC combination index | | 0 | | RBS-3706 |
| - STTD indication | | Not Present | | RBS-3707 |
| - E-AGCH Info | | | | RBS-3708 |
| - E-AGCH Channelisation Code | | 10 | | RBS-3709 |
| - E-HICH Info | | | | RBS-3710 |
| - Channelisation Code | | 4 | | RBS-3711 |
| - Signature Sequence | | 1 | | RBS-3712 |
| - E-RGCH Info | | | | RBS-3713 |
| - Signature Sequence | | 0 | | RBS-3714 |
| - RG combination index | | 0 | | RBS-3715 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A11 | FDD | R99 and Rel-4 only | RBS-3716 |
| - Downlink PDSCH information | | Not Present | | RBS-3717 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | Rel-5 | RBS-3718 |
| Downlink HS-PDSCH Information | A9, A10, A12, A13, A14, A15, A16, A17, A17d, A18, A19, A19a, A19b, A20, A21, A22, A24, A25, A25b, A29 | | Rel-5 Rel-6 Rel-7 Rel-8 | RBS-3719 RBS-3720 RBS-3721 RBS-3722 RBS-3723 RBS-3724 RBS-3725 RBS-3726 |
| - HS-SCCH Info | | | | |
| - CHOICE mode | | | | |
| - DL Scrambling Code | | | | |
| - HS-SCCH Channelisation | | | | |
| Code Information | | | | |
| - HS-SCCH Channelisation | | | | |
| Code | | 7 | | RBS-3727 |
| - Measurement Feedback Info | | | | |
| - CHOICE mode | | FDD | | RBS-3728 RBS-3729 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|--|--|
| <ul style="list-style-type: none"> - POhdsch - CQI Feedback cycle, k - CQI repetition factor - ΔCQI - CHOICE mode <ul style="list-style-type: none"> - Downlink 64QAM configured - HS-DSCH TB size table | | 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD (no data) Not present Not present | Rel-7 Rel-7 | RBS-3730 RBS-3731 RBS-3732 RBS-3733 RBS-3734 RBS-3735 RBS-3736 |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> - HS-SCCH Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - DL Scrambling Code - HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> - HS-SCCH Channelisation Code <ul style="list-style-type: none"> - Measurement Feedback Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - POhdsch - CQI Feedback cycle, k - CQI repetition factor - ΔCQI - CHOICE mode <ul style="list-style-type: none"> - Downlink 64QAM configured - HS-DSCH TB size table | A25a | FDD Not present 7 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD (no data) Not present Octet Aligned | Rel-8 Rel-7 Rel-7 | RBS-3737 RBS-3738 RBS-3739 RBS-3740 RBS-3741 RBS-3742 RBS-3743 RBS-3744 RBS-3745 RBS-3746 RBS-3747 RBS-3748 RBS-3749 RBS-3750 RBS-3751 |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> - HS-SCCH Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - DL Scrambling Code - HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> - HS-SCCH Channelisation Code <ul style="list-style-type: none"> - HS-SCCH Channelisation Code <ul style="list-style-type: none"> - Measurement Feedback Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - POhdsch - CQI Feedback cycle, k - CQI repetition factor - ΔCQI - CHOICE mode <ul style="list-style-type: none"> - Downlink 64QAM configured - HS-DSCH TB size table | A17a , A28 | FDD Not Present 4 5 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD TRUE Octet Aligned | Rel-7 Rel-8 Rel-7 Rel-7 | RBS-3752 RBS-3753 RBS-3754 RBS-3755 RBS-3756 RBS-3757 RBS-3758 RBS-3759 RBS-3760 RBS-3761 RBS-3762 RBS-3763 RBS-3764 RBS-3765 RBS-3766 RBS-3767 RBS-3768 |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> - HS-SCCH Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - DL Scrambling Code - HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> - HS-SCCH Channelisation Code <ul style="list-style-type: none"> - Measurement Feedback Info <ul style="list-style-type: none"> - CHOICE mode <ul style="list-style-type: none"> - POhdsch - CQI Feedback cycle, k - CQI repetition factor - ΔCQI | A17b , A23 , A26, A27, A27a, A30 A25c, A41, A42, A43 | FDD Not present 7 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) | Rel-7 Rel-7 Rel-8 Rel-8 Rel-9, Rel-11 | RBS-3769 RBS-3770 RBS-3771 RBS-3772 RBS-3773 RBS-3774 RBS-3775 RBS-3776 RBS-3777 RBS-3778 RBS-3779 RBS-3780 RBS-3781 RBS-3782 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|---------------------------|--|
| - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table | | FDD (no data) Not present Octet Aligned | Rel-7 Rel-7 | RBS-3783 RBS-3784 RBS-3785 |
| Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - Pohsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ CQI - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table | A17c, A17e, A17f | FDD Not Present 6 7 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD TRUE Octet Aligned | Rel-7 | RBS-3786 RBS-3787 RBS-3788 RBS-3789 RBS-3790 RBS-3791 RBS-3792 RBS-3793 RBS-3794 RBS-3795 RBS-3796 RBS-3797 RBS-3798 RBS-3799 RBS-3800 RBS-3801 |
| Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - Pohsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ CQI - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table | A28a | FDD Not Present 4 5 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD Not Present Not Present | Rel-7 | RBS-3802 RBS-3803 RBS-3804 RBS-3805 RBS-3806 RBS-3807 RBS-3808 RBS-3809 RBS-3810 RBS-3811 RBS-3812 RBS-3813 RBS-3814 RBS-3815 RBS-3816 RBS-3817 |
| Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - Pohsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ CQI - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table | A31 , A34, A36 | FDD Not Present 6 7 FDD 8 dB 8 ms 1 4 (corresponds to 0dB in relative power offset) FDD Not Present Not Present | Rel-9 Rel-10 | RBS-3818 RBS-3819 RBS-3820 RBS-3821 RBS-3822 RBS-3823 RBS-3824 RBS-3825 RBS-3826 RBS-3827 RBS-3828 RBS-3829 RBS-3830 RBS-3831 RBS-3832 RBS-3833 |
| Downlink HS-PDSCH Information | A32 , A33, A35, A37 A38, A39, A40, A44, | | Rel-9 Rel-10 Rel-11 | RBS-3834 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|--|--|--|
| <ul style="list-style-type: none"> - HS-SCCH Info - CHOICE mode <ul style="list-style-type: none"> - DL Scrambling Code - HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> - HS-SCCH Channelisation Code <ul style="list-style-type: none"> - Measurement Feedback Info - CHOICE mode <ul style="list-style-type: none"> - Pohdsch - CQI Feedback cycle, k - CQI repetition factor - ΔCQI - CHOICE mode <ul style="list-style-type: none"> - Downlink 64QAM configured - HS-DSCH TB size table | A45 | FDD Not Present Refer to clause 5.5.1.3 FDD 8 dB 8 ms 1 4 (corresponds to 0dB in relative power offset) FDD TRUE Not present | | RBS-3835 RBS-3836 RBS-3837 RBS-3838 RBS-3839 RBS-3840 RBS-3841 RBS-3842 RBS-3843 RBS-3844 RBS-3845 RBS-3846 RBS-3847 RBS-3848 |
| Downlink information common for all radio links <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode <ul style="list-style-type: none"> - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value | A1, A2, A3, A11 | Maintain Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD Not Present None Not Present Not Present | R99 and Rel-4 only | RBS-3865 RBS-3866 RBS-3867 RBS-3868 RBS-3869 RBS-3870 RBS-3871 RBS-3872 RBS-3873 RBS-3874 RBS-3875 RBS-3876 RBS-3877 RBS-3878 RBS-3879 RBS-3880 RBS-3881 RBS-3882 |
| Downlink information common for all radio links <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode <ul style="list-style-type: none"> - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode | A9 , A12, A13, A15 , A17, A17a, A17d, A17e, , A17f A18. A19, A19a , A25a, A25b, A26, A28 A35 A38, A39, A40, A41, A42, A43, A44, A45 | Maintain Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD | Rel-5 Rel-6 Rel-7 Rel-8 Rel-10 Rel-11 | RBS-3883 RBS-3884 RBS-3885 RBS-3886 RBS-3886a RBS-3886b RBS-3887 RBS-3888 RBS-3889 RBS-3890 RBS-3891 RBS-3892 RBS-3893 RBS-3894 RBS-3895 RBS-3896 RBS-3897 RBS-3898 RBS-3899 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|--|--|--|
| - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator | | Not Present None Not Present Not Present | | RBS-3900 RBS-3901 RBS-3902 RBS-3903 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value | A4,A7,A8 | Initialize Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD Not Present None Not Present Arbitrary set to value 0..306688 by step of 512 | R99 and Rel-4 only | RBS-3904 RBS-3905 RBS-3906 RBS-3907 RBS-3908 RBS-3909 RBS-3910 RBS-3911 RBS-3912 RBS-3913 RBS-3914 RBS-3915 RBS-3916 RBS-3917 RBS-3918 RBS-3919 RBS-3920 RBS-3921 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator | A10 | Initialize Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD Not Present None Arbitrary set to value 0..306688 by step of 512 Not Present | Rel-5 | RBS-3922 RBS-3923 RBS-3924 RBS-3925 RBS-3926 RBS-3927 RBS-3928 RBS-3929 RBS-3930 RBS-3931 RBS-3932 RBS-3933 RBS-3934 RBS-3935 RBS-3936 RBS-3937 RBS-3938 RBS-3939 |
| Downlink information common for all radio links - Downlink F-DPCH info common for all RL - Timing Indication - Timing maintained Synchronization indicator - Downlink F-DPCH power control information | A14, A16 , A17b, A17c, A19b, A20, A21, A22 , A23, A28a , A25, A27, A27a A25c, A31, A32 A33, A34, A36, A37 | Maintain FALSE | Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 | RBS-3940 RBS-3941 RBS-3942 RBS-3943 RBS-3943a RBS-3944 RBS-3945 RBS-3946 RBS-3947 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------------|--|---|--|
| <ul style="list-style-type: none"> - DPC mode - TPC command error rate target - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator | | 0 (single) 0.04 FDD Not Present None Not Present Not Present | | RBS-3948 RBS-3949 RBS-3950 RBS-3951 RBS-3952 RBS-3953 RBS-3954 |
| Downlink information common for all radio links | A5,A6 | Not Present | | RBS-3955 |
| | , A24 , A29 | Not Present | Rel-7 | RBS-3956 RBS-3957 |
| Downlink information common for all radio links <ul style="list-style-type: none"> - Downlink F-DPCH info common for all RL - Timing Indication - Downlink F-DPCH power control Information - DPC mode - TPC command error rate target - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator | A30 | Initialise 0 (single) 0.04 FDD Not Present None Arbitrary set to value 0..306688 by step of 512 TRUE | Rel-8 | RBS-3957a |
| Downlink information for each radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSTD Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH | A1, A2, A3, A4, A7, A8, A11 | FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present 1 Reference to clause 6.10 Parameter Set 0 Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present Not Present | R99 and Rel-4 only R99 and Rel-4 only Rel-5 | RBS-3958 RBS-3959 RBS-3960 RBS-3961 RBS-3962 RBS-3963 RBS-3964 RBS-3965 RBS-3966 RBS-3967 RBS-3968 RBS-3969 RBS-3970 RBS-3971 RBS-3972 RBS-3973 RBS-3974 RBS-3975 RBS-3976 RBS-3977 RBS-3978 |
| Downlink information for each radio link | A5 | | R99 and Rel-4 only | RBS-3979 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------|--|---|--|
| list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - SCCPCH information for FACH | | FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE Not present Not Present | R99 and Rel-4 only R99 and Rel-4 only Rel-5 | RBS-3980 RBS-3981 RBS-3982 RBS-3983 RBS-3984 RBS-3985 RBS-3986 RBS-3987 RBS-3988 |
| Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information - SCCPCH information for FACH | A9, A10 A17, A18 | FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present TRUE FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present 1 Reference to clause 6.10 Parameter Set 0 Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present Not Present Not Present Not Present | Rel-5 Rel-7 R99 and Rel-4 only R99 and Rel-4 only Rel-6 | RBS-3989 RBS-3990 RBS-3991 RBS-3992 RBS-3993 RBS-3994 RBS-3995 RBS-3996 RBS-3997 RBS-3998 RBS-3999 RBS-4000 RBS-4001 RBS-4002 RBS-4003 RBS-4004 RBS-4005 RBS-4006 RBS-4007 RBS-4008 RBS-4009 RBS-4010 RBS-4011 RBS-4012 RBS-4013 RBS-4014 |
| Downlink information for each radio link list - Downlink information for each radio link | A17a, A17d, A17e, A25a, A28 | | Rel-7 Rel-8 | RBS-4015 RBS-4016 RBS-4017 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|---|---|---------|----------|----------|
| <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code indicator <ul style="list-style-type: none"> - Serving HS-DSCH radio link indicator <ul style="list-style-type: none"> - Serving E-DCH radio link indicator <ul style="list-style-type: none"> - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset mode <ul style="list-style-type: none"> - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - Closed loop timing adjustment mode <ul style="list-style-type: none"> - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | | FDD | Rel-6 | RBS-4018 | |
| | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4019 | |
| | | TRUE | | RBS-4020 | |
| | | FALSE | | RBS-4021 | |
| | | Primary CPICH may be used | | RBS-4022 | |
| | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-4023 | |
| | | Not Present | | RBS-4024 | |
| | | Not Present | | RBS-4025 | |
| | | Reference to clause 6.10 Parameter Set 13 | | RBS-4026 | |
| | | Not Present | | RBS-4027 | |
| | | 0 | | RBS-4028 | |
| | | Not Present | | RBS-4029 | |
| | | Not Present | | RBS-4030 | |
| Not Present | RBS-4031 | | | | |
| Not Present | RBS-4032 | | | | |
| Not Present | RBS-4033 | | | | |
| Not Present | Rel-6 | RBS-4034 | | | |
| Not Present | Rel-6 | RBS-4035 | | | |
| Not Present | Rel-6 | RBS-4036 | | | |
| Downlink information for each radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code indicator <ul style="list-style-type: none"> - Serving HS-DSCH radio link indicator <ul style="list-style-type: none"> - Serving E-DCH radio link indicator <ul style="list-style-type: none"> - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset mode <ul style="list-style-type: none"> - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - Closed loop timing adjustment mode <ul style="list-style-type: none"> - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information <ul style="list-style-type: none"> - Channelisation code - Signature sequence - CHOICE E-RGCH Information <ul style="list-style-type: none"> - E-RGCH Information - Signature Sequence - RG combination index | A25b | FDD | Rel-6 | RBS-4037 | |
| | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4038 | |
| | | TRUE | | RBS-4039 | |
| | | TRUE | | RBS-4040 | |
| | | Primary CPICH may be used | | RBS-4041 | |
| | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-4042 | |
| | | Not Present | | RBS-4043 | |
| | | Not Present | | RBS-4044 | |
| | | Reference to clause 6.10 Parameter Set 13 | | RBS-4045 | |
| | | Not Present | | RBS-4046 | |
| | | Not Present | | RBS-4047 | |
| | | Not Present | | RBS-4048 | |
| | | 0 | | RBS-4049 | |
| | | Not Present | | RBS-4050 | |
| | | Not Present | | RBS-4051 | |
| | | Not Present | | RBS-4052 | |
| | | Not Present | | RBS-4053 | |
| | | Not Present | | RBS-4054 | |
| | | 10 | | Rel-6 | RBS-4055 |
| | | 4 | | Rel-6 | RBS-4056 |
| 1 | Rel-6 | RBS-4057 | | | |
| 0 | | RBS-4058 | | | |
| 0 | | RBS-4059 | | | |
| 0 | | RBS-4060 | | | |
| 0 | | RBS-4061 | | | |
| 0 | | RBS-4062 | | | |
| 0 | | RBS-4063 | | | |
| Downlink information for each radio link list | A12, A13, A15, A17f , A19, A19a , A26 , A35 A38, A39, A40, A41, A42, A43, A44, A45 | | Rel-6 | RBS-4064 | |
| | | | Rel-7 | RBS-4065 | |
| | | | Rel-8 | RBS-4066 | |
| | | | Rel-10 | | |
| | | | Rel-11 | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------|---|----------------|----------|
| - Downlink information for each radio link | | | | RBS-4067 |
| - Choice mode | | FDD | | RBS-4068 |
| - Primary CPICH info | | | | RBS-4069 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4070 |
| - Serving HS-DSCH radio link indicator | | TRUE | | RBS-4071 |
| - Serving E-DCH radio link indicator | | TRUE | | RBS-4072 |
| - Downlink DPCH info for each RL | | | | RBS-4073 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBS-4074 |
| - DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-4075 |
| - Secondary CPICH info | | Not Present | | RBS-4076 |
| - DL channelisation code | | | | RBS-4077 |
| - Secondary scrambling code | | 1 | | RBS-4078 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set 0 | | RBS-4079 |
| - Code number | | 0 | | RBS-4080 |
| - Scrambling code change | | Set to value: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | Default1 | RBS-4081 |
| - TPC combination index | | Set to value: OMIT (otherwise) | Default2 | RBS-4082 |
| - Closed loop timing adjustment mode | | 0 | | RBS-4083 |
| - E-AGCH Info | | | | RBS-4084 |
| - E-AGCH Channelisation Code | | 10 | | RBS-4085 |
| - CHOICE E-HICH Information | | | | RBS-4086 |
| - E-HICH Information | | | | RBS-4087 |
| - Channelisation code | | 4 | | RBS-4088 |
| - Signature sequence | | 1 | | RBS-4089 |
| - CHOICE E-RGCH Information | | | | RBS-4090 |
| - E-RGCH Information | | | | RBS-4091 |
| - Signature Sequence | | 0 | | RBS-4092 |
| - RG combination index | | 0 | | RBS-4093 |
| Downlink information for each radio link list | A14, A16, A19b | | Rel-6 Rel-7 | RBS-4094 |
| - Downlink information for each radio link | | | | RBS-4095 |
| - Choice mode | | FDD | | RBS-4096 |
| - Primary CPICH info | | | | RBS-4097 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4098 |
| - Serving HS-DSCH radio link indicator | | TRUE | | RBS-4099 |
| - Serving E-DCH radio link indicator | | TRUE | | RBS-4100 |
| - Downlink DPCH info for each RL | | Not Present | | RBS-4101 |
| - Downlink F-DPCH info for each RL | | | | RBS-4102 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBS-4103 |
| - F-DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-4104 |
| - F-DPCH slot format | | 3 if UE supports enhanced F-DPCH, otherwise Not Present | Rel-7 | RBS-4105 |
| - Secondary CPICH info | | Not Present | | RBS-4106 |
| - Secondary scrambling code | | Not Present | | RBS-4107 |
| - Code number | | 12 | | RBS-4108 |
| - TPC combination index | | 0 | | RBS-4109 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------|--|----------------|--|
| <ul style="list-style-type: none"> - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence - CHOICE E-RGCH Information | | 10 4 1 Not Present | | RBS-4110 RBS-4111 RBS-4112 RBS-4113 RBS-4114 RBS-4115 RBS-4116 |
| Downlink information for each radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence - CHOICE E-RGCH Information | A17b, A17c, A28a A25c | FDD Ref. to the Default setting in clause 6.1 (FDD) TRUE TRUE Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present Not Present Not Present 11 0 10 4 1 Not Present | Rel-7 Rel-9 | RBS-4117 RBS-4118 RBS-4119 RBS-4120 RBS-4121 RBS-4122 RBS-4123 RBS-4124 RBS-4125 RBS-4126 RBS-4127 RBS-4128 RBS-4129 RBS-4130 RBS-4131 RBS-4132 RBS-4133 RBS-4134 RBS-4135 RBS-4136 RBS-4137 RBS-4138 RBS-4139 RBS-4140 |
| Downlink information for each radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code | A30 | FDD Ref. to the Default setting in clause 6.1 (FDD) TRUE TRUE Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present Not Present Not Present 12 0 11 | Rel-8 | RBS-4141 RBS-4142 RBS-4143 RBS-4144 RBS-4145 RBS-4146 RBS-4147 RBS-4148 RBS-4149 RBS-4150 RBS-4151 RBS-4152 RBS-4153 RBS-4154 RBS-4155 RBS-4156 RBS-4157 RBS-4158 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------|---|--------------------------|----------|
| - Secondary CPICH info | | Not Present | | RBS-4206 |
| - Secondary scrambling code | | Not Present | | RBS-4207 |
| - Code number | | 12 | | RBS-4208 |
| - TPC combination index | | 0 | | RBS-4209 |
| - E-AGCH Info | | | | RBS-4210 |
| - E-AGCH Channelisation Code | | 10 | | RBS-4211 |
| - CHOICE E-HICH Information | | | | RBS-4212 |
| - E-HICH Information | | | | RBS-4213 |
| - Channelisation code | | 4 | | RBS-4214 |
| - Signature sequence | | 1 | | RBS-4215 |
| - CHOICE E-RGCH Information | | | | RBS-4216 |
| - E-RGCH Information | | Not present | | RBS-4217 |
| - Downlink information for each radio link | A32, A33, A37 | | Rel-10 | RBS-4218 |
| - Choice mode | | FDD | | RBS-4219 |
| - Primary CPICH info | | | | RBS-4220 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4221 |
| - Serving HS-DSCH radio link indicator | | TRUE | | RBS-4222 |
| - Serving E-DCH radio link indicator | | TRUE | | RBS-4223 |
| - Downlink DPCH info for each RL | | Not Present | | RBS-4224 |
| - Downlink F-DPCH info for each RL | | | | RBS-4225 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBS-4226 |
| - F-DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS-4227 |
| - F-DPCH slot format | | 3 if UE supports enhanced F-DPCH, otherwise Not Present | Rel-7 | RBS-4228 |
| - Secondary CPICH info | | Not Present | | RBS-4229 |
| - Secondary scrambling code | | Not Present | | RBS-4230 |
| - Code number | | 11 | | RBS-4231 |
| - TPC combination index | | 0 | | RBS-4232 |
| - E-AGCH Info | | | | RBS-4233 |
| - E-AGCH Channelisation Code | | 10 | | RBS-4234 |
| - CHOICE E-HICH Information | | | | RBS-4235 |
| - E-HICH Information | | | | RBS-4236 |
| - Channelisation code | | 4 | | RBS-4237 |
| - Signature sequence | | 1 | | RBS-4238 |
| - CHOICE E-RGCH Information | | | | RBS-4239 |
| - E-RGCH Information | | | | RBS-4240 |
| - Signature Sequence | | 0 | | RBS-4241 |
| - RG combination index | | 0 | | RBS-4242 |
| Downlink information for each radio link list | A6, A24 | Not Present | | RBS-4243 |
| | A29 | | | RBS-4244 |
| Downlink secondary cell info FDD | A25a A25c , A36 | | Rel-8 Rel-9 Rel-10 | RBS-4245 |
| - CHOICE Configuration info | | New configuration | | RBS-4246 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4247 |
| - Downlink 64QAM configured | | Not Present | | RBS-4248 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4249 |
| - Primary CPICH info | | | | RBS-4250 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4251 |
| - DL Scrambling Code | | Not Present | | RBS-4252 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4253 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4254 |
| - Measurement Power Offset | | 6 dB | | RBS-4255 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4256 |
| - Different Tx diversity mode configuration from serving HS-DSCH | | Not Present | Rel-8 | RBS-4257 |

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| cell | | | | |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4258 |
| Downlink secondary cell info FDD | A25, A25b | | Rel-8 | RBS-4259 |
| - CHOICE Configuration info | | New configuration | | RBS-4260 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4261 |
| - Downlink 64QAM configured | | Not Present | | RBS-4262 |
| - HS-DSCH TB size table | | Not Present | | RBS-4263 |
| - Primary CPICH info | | | | RBS-4264 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4265 |
| - DL Scrambling Code | | Not Present | | RBS-4266 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4267 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4268 |
| - Measurement Power Offset | | 6 dB | | RBS-4269 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4270 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4271 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4272 |
| Downlink secondary cell info FDD | A31, A34 | | Rel-9 Rel-10 | RBS-4273 |
| - CHOICE Configuration info | | New configuration | | RBS-4274 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4275 |
| - Downlink 64QAM configured | | Not Present | | RBS-4276 |
| - HS-DSCH TB size table | | Not Present | | RBS-4277 |
| - Primary CPICH info | | | | RBS-4278 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4279 |
| - DL Scrambling Code | | Not Present | | RBS-4280 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4281 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4282 |
| - Measurement Power Offset | | 6 dB | | RBS-4283 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4284 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4285 |
| -Secondary cell MIMO parameters | | | Rel-9 | RBS-4286 |
| - CHOICE Configuration info | | | | RBS-4287 |
| - Continue | | | | RBS-4288 |
| - New configuration | | 1/1 | | RBS-4289 |
| - MIMO N_cqi_typeA/M_cqi ratio | | | | RBS-4290 |
| - MIMO pilot configuration | | | | RBS-4291 |
| -CHOICE Second CPICH pattern | | No data | | RBS-4292 |
| -Antenna2 P-CPICH | | | | RBS-4293 |
| -Antenna1 S-CPICH | | | | RBS-4294 |
| -Channelisation code | | 13 | | RBS-4295 |
| -Power Offset for S-CPICH for MIMO | | 0 | | RBS-4296 |
| Downlink secondary cell info FDD | A32, A33 | | Rel-9 Rel-10 | RBS-4297 |
| - CHOICE Configuration info | | New configuration | | RBS-4298 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4299 |
| - Downlink 64QAM configured | | TRUE | | RBS-4300 |
| - HS-DSCH TB size table | | Not present | | RBS-4301 |
| - Primary CPICH info | | | | RBS-4302 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4303 |
| - DL Scrambling Code | | Not Present | | RBS-4304 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4305 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4306 |

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|--|---------------|--|---|--|
| - HS-SCCH Channelisation Code - Measurement Power Offset - UARFCN downlink (Nd) - Different Tx diversity mode configuration from serving HS-DSCH cell - Secondary cell MIMO parameters - CHOICE Configuration info - Continue - New configuration - MIMO N_cqi_typeA/M_cqi ratio - MIMO pilot configuration -CHOICE Second CPICH pattern -Antenna2 P-CPICH -Antenna1 S-CPICH -Channelisation code | | 7 6 dB Reference to clause 5.1 Test frequencies Not Present 1/1 No data 29 | Rel-8 Rel-9 | RBS-4309 RBS-4310 RBS-4311 RBS-4312 RBS-4313 RBS-4314 RBS-4315 RBS-4316 RBS-4317 RBS-4318 RBS-4319 RBS-4320 RBS-4321 RBS-4322 |
| Downlink secondary cell info FDD - CHOICE Configuration info - New H-RNTI - Downlink 64QAM configured - HS-DSCH TB size table - Primary CPICH info - Primary scrambling code - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Power Offset - UARFCN downlink (Nd) - Different Tx diversity mode configuration from serving HS-DSCH cell | A35, A37 | New configuration '1010 1010 1010 1010' TRUE Not present Ref. to the Default setting in clause 6.1 (FDD) Not Present 6 7 6 dB Reference to clause 5.1 Test frequencies Not Present | Rel-10 Rel-8 | RBS-4323 RBS-4324 RBS-4325 RBS-4326 RBS-4327 RBS-4328 RBS-4329 RBS-4330 RBS-4331 RBS-4332 RBS-4333 RBS-4334 RBS-4335 RBS-4336 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4337 |
| Downlink secondary cell info FDD - CHOICE Configuration info - New H-RNTI - Downlink 64QAM configured - HS-DSCH TB size table - Primary CPICH info - Primary scrambling code - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Power Offset - UARFCN downlink (Nd) - Different Tx diversity mode configuration from serving HS-DSCH cell | A38, A39, A40 | New configuration '1010 1010 1010 1010' True Not present Ref. to the Default setting in clause 6.1 (FDD) Not Present | Rel-11 | RBS-4338 RBS-4339 RBS-4340 RBS-4341 RBS-4342 RBS-4343 RBS-4344 RBS-4345 RBS-4346 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4347 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4348 |
| - Measurement Power Offset | | 6 dB | | RBS-4349 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4350 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4351 |
| - multiflowConfigurationInfo | | | Rel-11 | RBS-4352 |
| - Multiflow cell | | Intra-NodeB | | RBS-4353 |
| - Multiflow time reference cell | | False | | RBS-4354 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4355 |
| Additional downlink secondary cell info list FDD | A39, A40 | | Rel-11 | RBS-4356 |
| Downlink secondary cell info FDD - CHOICE Configuration info - New H-RNTI | A39, A40 | New configuration '1010 1010 1010 1010' | Rel-11 | RBS-4357 RBS-4358 RBS-4359 |

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| - Downlink 64QAM configured | | True | | RBS-4360 |
| - HS-DSCH TB size table | | Not present | | RBS-4361 |
| - Primary CPICH info | | | | RBS-4362 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4363 |
| - DL Scrambling Code | | Not Present | | RBS-4364 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4365 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4366 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4367 |
| - Measurement Power Offset | | 6 dB | | RBS-4368 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4369 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4370 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4371 |
| - Multiframe cell | | Intra-NodeB | | RBS-4372 |
| - Multiframe time reference cell | | True | | RBS-4373 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4374 |
| Downlink secondary cell info FDD | A40 | | Rel-11 | RBS-4375 |
| - CHOICE Configuration info | | New configuration | | RBS-4376 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4377 |
| - Downlink 64QAM configured | | True | | RBS-4378 |
| - HS-DSCH TB size table | | Not present | | RBS-4379 |
| - Primary CPICH info | | | | RBS-4380 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4381 |
| - DL Scrambling Code | | Not Present | | RBS-4382 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4383 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4384 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4385 |
| - Measurement Power Offset | | 6 dB | | RBS-4386 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4387 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4388 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4389 |
| - Multiframe cell | | Intra-NodeB | | RBS-4390 |
| - Multiframe time reference cell | | False | | RBS-4391 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4392 |
| Downlink secondary cell info FDD | A41, A42, A43 | | Rel-11 | RBS-4393 |
| - CHOICE Configuration info | | New configuration | | RBS-4394 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4395 |
| - Downlink 64QAM configured | | False | | RBS-4396 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4397 |
| - Primary CPICH info | | | | RBS-4398 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4399 |
| - DL Scrambling Code | | Not Present | | RBS-4400 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4401 |
| - HS-SCCH Channelisation Code | | Refer to clause 5.5.1.3 | | RBS-4402 |
| - Measurement Power Offset | | 6 dB | | RBS-4403 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4404 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4405 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4406 |
| - Multiframe cell | | Intra-NodeB | | RBS-4407 |
| - Multiframe time reference cell | | False | | RBS-4408 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4409 |

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| Additional downlink secondary cell info list FDD | A42, A43 | | Rel-11 | RBS-4410 |
| Downlink secondary cell info FDD | A42, A43 | | Rel-11 | RBS-4411 |
| - CHOICE Configuration info | | New configuration | | RBS-4412 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4413 |
| - Downlink 64QAM configured | | False | | RBS-4414 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4415 |
| - Primary CPICH info | | | | RBS-4416 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4417 |
| - DL Scrambling Code | | Not Present | | RBS-4418 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4419 |
| - HS-SCCH Channelisation Code | | Refer to clause 5.5.1.3 | | RBS-4420 |
| - Measurement Power Offset | | 6 dB | | RBS-4421 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4422 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4423 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4424 |
| - Multiframe cell | | Intra-NodeB | | RBS-4425 |
| - Multiframe time reference cell | | True | | RBS-4426 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4427 |
| Downlink secondary cell info FDD | A43 | | Rel-11 | RBS-4428 |
| - CHOICE Configuration info | | New configuration | | RBS-4429 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4430 |
| - Downlink 64QAM configured | | False | | RBS-4431 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4432 |
| - Primary CPICH info | | | | RBS-4433 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4434 |
| - DL Scrambling Code | | Not Present | | RBS-4435 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4436 |
| - HS-SCCH Channelisation Code | | Refer to clause 5.5.1.3 | | RBS-4437 |
| - Measurement Power Offset | | 6 dB | | RBS-4438 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4439 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4440 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4441 |
| - Multiframe cell | | Intra-NodeB | | RBS-4442 |
| - Multiframe time reference cell | | False | | RBS-4443 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4444 |
| Downlink secondary cell info FDD | A44, A45 | | Rel-11 | RBS-4445 |
| - CHOICE Configuration info | | New configuration | | RBS-4446 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4447 |
| - Downlink 64QAM configured | | False | | RBS-4448 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4449 |
| - Primary CPICH info | | | | RBS-4450 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4451 |
| - DL Scrambling Code | | Not Present | | RBS-4452 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4453 |
| - HS-SCCH Channelisation Code | | Refer to clause 5.5.1.3 | | RBS-4454 |
| - Measurement Power Offset | | 6 dB | | RBS-4455 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4456 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4457 |
| - multiframeConfigurationInfo | | | Rel-11 | RBS-4458 |

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| - Multiflow cell | | Inter-NodeB | | RBS-4459 |
| - Multiflow time reference cell | | True | | RBS-4460 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4461 |
| Additional downlink secondary cell info list FDD | A45 | | Rel-11 | RBS-4462 |
| Downlink secondary cell info FDD | A45 | | Rel-11 | RBS-4463 |
| - CHOICE Configuration info | | New configuration | | RBS-4464 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4465 |
| - Downlink 64QAM configured | | True | | RBS-4466 |
| - HS-DSCH TB size table | | Not present | | RBS-4467 |
| - Primary CPICH info | | | | RBS-4468 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4469 |
| - DL Scrambling Code | | Not Present | | RBS-4470 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4471 |
| - HS-SCCH Channelisation Code | | Refer to clause 5.5.1.3 | | RBS-4472 |
| - Measurement Power Offset | | 6 dB | | RBS-4473 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4474 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4475 |
| - multiflowConfigurationInfo | | | Rel-11 | RBS-4476 |
| - Multiflow cell | | Intra-NodeB | | RBS-4477 |
| - Multiflow time reference cell | | False | | RBS-4478 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4479 |
| Additional downlink secondary cell info list FDD | A33 | | Rel-10 | RBS-4480 |
| Downlink secondary cell info FDD | A33 | 3rd Carrier (3C and 4C) | Rel-10 | RBS-4481 |
| - CHOICE Configuration info | | New configuration | | RBS-4482 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4483 |
| - Downlink 64QAM configured | | TRUE | | RBS-4484 |
| - HS-DSCH TB size table | | Not present | | RBS-4485 |
| - Primary CPICH info | | | | RBS-4486 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4487 |
| - DL Scrambling Code | | Not Present | | RBS-4488 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4489 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4490 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4491 |
| - Measurement Power Offset | | 6 dB | | RBS-4492 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4493 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4494 |
| - Secondary cell MIMO parameters | | | Rel-9 | RBS-4495 |
| - CHOICE Configuration info | | | | RBS-4496 |
| - Continue | | | | RBS-4497 |
| - New configuration | | | | RBS-4498 |
| - MIMO N_cqi_typeA/M_cqi ratio | | 1/1 | | RBS-4499 |
| - MIMO pilot configuration | | | | RBS-4500 |
| -CHOICE Second CPICH pattern | | | | RBS-4501 |
| -Antenna2 P-CPICH | | No data | | RBS-4502 |
| -Antenna1 S-CPICH | | | | RBS-4503 |
| -Channelisation code | | 29 | | RBS-4504 |
| -Power Offset for S-CPICH for MIMO | | 0 | | RBS-4505 |
| - Precoding weight set restriction | | True | | RBS-4506 |
| Downlink secondary cell info FDD | A33 | 4th Carrier (4C) | Rel-10 | RBS-4507 |
| - CHOICE Configuration info | | New configuration | | RBS-4508 |

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| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4509 |
| - Downlink 64QAM configured | | TRUE | | RBS-4510 |
| - HS-DSCH TB size table | | Not present | | RBS-4511 |
| - Primary CPICH info | | | | RBS-4512 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4513 |
| - DL Scrambling Code | | Not Present | | RBS-4514 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4515 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4516 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4517 |
| - Measurement Power Offset | | 6 dB | | RBS-4518 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4519 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4520 |
| - Secondary cell MIMO parameters | | | Rel-9 | RBS-4521 |
| - CHOICE Configuration info | | | | RBS-4522 |
| - Continue | | | | RBS-4523 |
| - New configuration | | | | RBS-4524 |
| - MIMO N_cqi_typeA/M_cqi ratio | | 1/1 | | RBS-4525 |
| - MIMO pilot configuration | | | | RBS-4526 |
| -CHOICE Second CPICH pattern | | | | RBS-4527 |
| -Antenna2 P-CPICH | | No data | | RBS-4528 |
| -Antenna1 S-CPICH | | | | RBS-4529 |
| -Channelisation code | | 29 | | RBS-4530 |
| -Power Offset for S-CPICH for MIMO | | 0 | | RBS-4531 |
| - Precoding weight set restriction | | True | | RBS-4532 |
| Additional downlink secondary cell info list FDD | A34 | 3rd Carrier (3C and 4C) | Rel-10 | RBS-4533 |
| Downlink secondary cell info FDD | A34 | | Rel-10 | RBS-4534 |
| - CHOICE Configuration info | | New configuration | | RBS-4535 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4536 |
| - Downlink 64QAM configured | | Not Present | | RBS-4537 |
| - HS-DSCH TB size table | | Not Present | | RBS-4538 |
| - Primary CPICH info | | | | RBS-4539 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4540 |
| - DL Scrambling Code | | Not Present | | RBS-4541 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4542 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4543 |
| - Measurement Power Offset | | 6 dB | | RBS-4544 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4545 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4546 |
| -Secondary cell MIMO parameters | | | Rel-9 | RBS-4547 |
| - CHOICE Configuration info | | | | RBS-4548 |
| - Continue | | | | RBS-4549 |
| - New configuration | | | | RBS-4550 |
| - MIMO N_cqi_typeA/M_cqi ratio | | 1/1 | | RBS-4551 |
| - MIMO pilot configuration | | | | RBS-4552 |
| -CHOICE Second CPICH pattern | | | | RBS-4553 |
| -Antenna2 P-CPICH | | No data | | RBS-4554 |
| -Antenna1 S-CPICH | | | | RBS-4555 |
| -Channelisation code | | 13 | | RBS-4556 |
| -Power Offset for S-CPICH for MIMO | | 0 | | RBS-4557 |

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| - Precoding weight set restriction | | True | | RBS-4558 |
| Downlink secondary cell info FDD | A34 | 4th Carrier (4C) | Rel-10 | RBS-4559 |
| - CHOICE Configuration info | | New configuration | | RBS-4560 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4561 |
| - Downlink 64QAM configured | | Not Present | | RBS-4562 |
| - HS-DSCH TB size table | | Not Present | | RBS-4563 |
| - Primary CPICH info | | | | RBS-4564 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4565 |
| - DL Scrambling Code | | Not Present | | RBS-4566 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4567 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4568 |
| - Measurement Power Offset | | 6 dB | | RBS-4569 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4570 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4571 |
| -Secondary cell MIMO parameters | | | Rel-9 | RBS-4572 |
| - CHOICE Configuration info | | | | RBS-4573 |
| - Continue | | | | RBS-4574 |
| - New configuration | | | | RBS-4575 |
| - MIMO N_cqi_typeA/M_cqi ratio | | 1/1 | | RBS-4576 |
| - MIMO pilot configuration | | | | RBS-4577 |
| -CHOICE Second CPICH pattern | | | | RBS-4578 |
| -Antenna2 P-CPICH | | No data | | RBS-4579 |
| -Antenna1 S-CPICH | | | | RBS-4580 |
| -Channelisation code | | 13 | | RBS-4581 |
| -Power Offset for S-CPICH for MIMO | | 0 | | RBS-4582 |
| - Precoding weight set restriction | | True | | RBS-4583 |
| Additional downlink secondary cell info list FDD | A35 | 3rd Carrier (3C and 4C) | Rel-10 | RBS-4584 |
| Downlink secondary cell info FDD | A35 | | Rel-10 | RBS-4585 |
| - CHOICE Configuration info | | New configuration | | RBS-4586 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4587 |
| - Downlink 64QAM configured | | TRUE | | RBS-4588 |
| - HS-DSCH TB size table | | Not present | | RBS-4589 |
| - Primary CPICH info | | | | RBS-4590 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4591 |
| - DL Scrambling Code | | Not Present | | RBS-4592 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4593 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4594 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4595 |
| - Measurement Power Offset | | 6 dB | | RBS-4596 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4597 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4598 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4599 |
| Downlink secondary cell info FDD | A35 | 4th Carrier (4C) | Rel-10 | RBS-4600 |
| - CHOICE Configuration info | | New configuration | | RBS-4601 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4602 |
| - Downlink 64QAM configured | | TRUE | | RBS-4603 |
| - HS-DSCH TB size table | | Not present | | RBS-4604 |
| - Primary CPICH info | | | | RBS-4605 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4606 |
| - DL Scrambling Code | | Not Present | | RBS-4607 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|----------|
| - HS-SCCH Channelisation Code Information | | | | RBS-4608 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4609 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4610 |
| - Measurement Power Offset | | 6 dB | | RBS-4611 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4612 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4613 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4614 |
| Additional downlink secondary cell info list FDD | A36 | | Rel-10 | RBS-4615 |
| Downlink secondary cell info FDD | A36 | 3rd Carrier (3C and 4C) | Rel-10 | RBS-4616 |
| - CHOICE Configuration info | | New configuration | | RBS-4617 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4618 |
| - Downlink 64QAM configured | | Not Present | | RBS-4619 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4620 |
| - Primary CPICH info | | | | RBS-4621 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4622 |
| - DL Scrambling Code | | Not Present | | RBS-4623 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4624 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4625 |
| - Measurement Power Offset | | 6 dB | | RBS-4626 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4627 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4628 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4629 |
| Downlink secondary cell info FDD | A36 | 4th Carrier (4C) | Rel-10 | RBS-4630 |
| - CHOICE Configuration info | | New configuration | | RBS-4631 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4632 |
| - Downlink 64QAM configured | | Not Present | | RBS-4633 |
| - HS-DSCH TB size table | | Octet Aligned | | RBS-4634 |
| - Primary CPICH info | | | | RBS-4635 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4636 |
| - DL Scrambling Code | | Not Present | | RBS-4637 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4638 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4639 |
| - Measurement Power Offset | | 6 dB | | RBS-4640 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4641 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4642 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4643 |
| Additional downlink secondary cell info list FDD | A37 | | Rel-10 | RBS-4644 |
| Downlink secondary cell info FDD | A37 | 3rd Carrier (3C and 4C) | Rel-10 | RBS-4645 |
| - CHOICE Configuration info | | New configuration | | RBS-4646 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4647 |
| - Downlink 64QAM configured | | TRUE | | RBS-4648 |
| - HS-DSCH TB size table | | Not present | | RBS-4649 |
| - Primary CPICH info | | | | RBS-4650 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4651 |
| - DL Scrambling Code | | Not Present | | RBS-4652 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4653 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|---|--|
| - HS-SCCH Channelisation Code | | 6 | | RBS-4654 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4655 |
| - Measurement Power Offset | | 6 dB | | RBS-4656 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4657 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4658 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4659 |
| Downlink secondary cell info FDD | A37 | 4th Carrier (4C) | Rel-10 | RBS-4660 |
| - CHOICE Configuration info | | New configuration | | RBS-4661 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBS-4662 |
| - Downlink 64QAM configured | | TRUE | | RBS-4663 |
| - HS-DSCH TB size table | | Not present | | RBS-4664 |
| - Primary CPICH info | | | | RBS-4665 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBS-4666 |
| - DL Scrambling Code | | Not Present | | RBS-4667 |
| - HS-SCCH Channelisation Code Information | | | | RBS-4668 |
| - HS-SCCH Channelisation Code | | 6 | | RBS-4669 |
| - HS-SCCH Channelisation Code | | 7 | | RBS-4670 |
| - Measurement Power Offset | | 6 dB | | RBS-4671 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBS-4672 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell | | Not Present | Rel-8 | RBS-4673 |
| -Secondary cell MIMO parameters | | Not Present | Rel-9 | RBS-4674 |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17f, A18, A19, A19a, A20, A21, A22, A23, A24, A28a, A25, A25a, A26, A27, A27a, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present | Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9 Rel-10 Rel-11 | RBS-4675 RBS-4676 RBS-4677 RBS-4678 RBS-4679 RBS-4680 RBS-4681 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS" | |
| A2 | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS" | |
| A3 | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS" | |
| A8 | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS" | Rel-5 |
| A11 | This IE is needed for " Packet RAB Setup after Speech RAB Setup in CELL_DCH" | |

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|-----|---|-------|
| A12 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH" | Rel-6 |
| A13 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-6 |
| A14 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-6 |
| A15 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-6 |

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|------|--|----------------------------|
| A16 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-6 |
| A17 | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM" | Rel-7 |
| A17a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM" | Rel-7 |
| A17b | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)" | Rel-7 |
| A17c | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)" | Rel-7 |
| A17d | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH (MAC-ehs)" | Rel-7 |
| A17e | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH (MAC-ehs)" | Rel-7 |
| A17f | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH [DL : 64QAM] with enhanced rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on DCH" | Rel-7 |
| A18 | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC UM" | Rel-7 |
| A19 | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH" | Rel-7 |
| A19a | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-7 |
| A19b | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A20 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with DTX/DRX using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A21 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with DTX/DRX and multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A22 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A23 | This IE is needed for "Speech to CELL_DCH / E-DCH / HS-DSCH CS RAB with DTX/DRX and enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 Rel-8 (Note 1) |
| A24 | This IE is needed for "Packet to CELL_FACH from CELL_FACH using one multiplexing option (1/1) and SRBs mapped on RACH/HS-DSCH" | Rel-7 |
| A25 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH(MACe/es) /HS-DSCH" | Rel-8 |
| A25a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH" | Rel-8 |
| A25b | This IE is needed for "Packet to CELL_DCH / E-DCH (MACe/es) / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-8 |
| A25c | This IE is needed for "Packet to CELL_DCH / E-DCH (MACi/is) [Dual-Cell] / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/ HS-DSCH" | Rel-9 |
| A26 | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) with multiple RABs (three streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/DCH" | Rel-8 |
| A27 | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-8 |
| A27a | This IE is needed for "UM Packet to CELL_DCH / E-DCH [UL : 16QAM] (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH" | Rel-8 |
| A28 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM+MIMO] with enhanced data rate and RLC AM" | Rel-8 |
| A28a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 16QAM+MIMO] with enhanced data rate and RLC AM" | Rel-7 |
| A29 | This IE is needed for "AM Packet to Enhanced CELL_FACH from Enhanced CELL_FACH in PS with SRBs mapped on common E-DCH/HS-DSCH" | Rel-8 |

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| A30 | This IE is needed for "AM Packet to CELL_DCH from Enhanced CELL_FACH in PS with SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH(MAC-ehs)" | Rel-8 |
| A31 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: DC-HSDPA and MIMO] with enhanced data rate and RLC AM" | Rel-9 |
| A32 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DC-HSDPA and MIMO] with enhanced data rate and RLC AM" | Rel-9 |
| A33 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA and MIMO] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A34 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, 4C-HSDPA and MIMO] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A35 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-10 |
| A36 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A37 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A38 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, SF-2C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A39 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DF-3C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A40 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DF-4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A41 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, SF-2C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A42 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, DF-3C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A43 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, DF-4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A44 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM/64QAM, SF-2C-HSDPA and Inter-Node B] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |
| A45 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM/64QAM, DF-3C-HSDPA and Inter-Node B] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH " | Rel-11 |

NOTE 1: Support depends on the UE capability: Support for CS voice over HSPA. This is supported in Rel-8 and may be supported in Rel-7.

| Condition | Explanation | Version |
|-------------|--|---------|
| MAC-I-FIXED | Used with other condition when MAC-i/is with Fixed RLC PDU size is configured | Rel-8 |
| MAC-I-FLEX | Used with other condition when MAC-i/is with Flexible RLC PDU size is configured | Rel-8 |

Contents of RADIO BEARER SETUP message: AM or UM, for MBMS PtP Radio Bearer Setup

| Information Element | Condition | Value/remark |
|--|---------------|--|
| <ul style="list-style-type: none"> - RAB information for setup <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup <ul style="list-style-type: none"> - RB identity - MBMS Service Identity <ul style="list-style-type: none"> - MBMS Service ID - MBMS Session identity <ul style="list-style-type: none"> - MBMS Session ID - PDCP info <ul style="list-style-type: none"> - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type <ul style="list-style-type: none"> - CHOICE Uplink RLC mode - CHOICE Downlink RLC mode <ul style="list-style-type: none"> - DL UM RLC LI size - DL Reception Window Size - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of downlink RLC logical channels - Downlink transport channel type <ul style="list-style-type: none"> - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Uplink transport channel type <ul style="list-style-type: none"> - UL Transport channel identity - TFS <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute | <p>B5, B2</p> | <p>(UM DTCH for PS domain DL only) 11111111B For Selected Service and Set to same as Enhanced NSAPI received in Service Request (10000000B to 11111110B) for Multicast service. The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315</p> <p>21 Present for Selected Service only MBMS Service ID of the service UE has selected</p> <p>Ongoing Session ID</p> <p>FALSE Not present Absent Not present RLC info Not Present UM RLC 7 Not Present</p> <p>1 RBMuxOptions Not Present Not Present</p> <p>1</p> <p>DCH 7 Not Present Not Present</p> <p>5 DCH reconfigured DCH 5</p> <p>Dedicated transport channels</p> <p>Reference to clause 6. 11.1b Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1b Parameter Set All</p> <p>Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set</p> |

| Information Element | Condition | Value/remark |
|--|---------------|--|
| <ul style="list-style-type: none"> - CRC size Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | <p>B1, B2</p> | <p>Reference to clause 6. 11.1b Parameter Set 2 TrCHs(DCH for DCCH and 1 DCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 7 Explicit Dedicated transport channel Reference to clause 6. 11.1b Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1b Parameter Set only including TF0 All Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set</p> |
| <ul style="list-style-type: none"> Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | <p>B3, B4</p> | <p>3 TrCHs(DCH for DCCH and 2 DCH for DTCH's) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Same as UL DCH 1 -20 (-2.0) DCH 7 Explicit Dedicated transport channel Reference to clause 6. 11.1a Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1a Parameter All Reference to clause 6. 11.1a Parameter Set Reference to clause 6. 11.1a Parameter Set Reference to clause 6. 11.1a Parameter Set Reference to clause 6. 11.1a Parameter Set Reference to clause 6. 11.1a Parameter Set</p> |
| <p>All other IEs</p> | <p>B1</p> | <p>-20 (-2.0) Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from</p> |

| Information Element | Condition | Value/remark |
|---------------------|-----------|--|
| All other IEs | B2 | CELL_DCH in PS" condition A3 except RB parameter set referred in 6.11.1b instead of 6.10 Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_FACH in PS" condition A4 except RB parameter set referred in 6.11.1b instead of 6.10 |
| All other IEs | B3 | Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_DCH in PS" condition A3 except RB parameter set referred in 6.11.1a instead of 6.10 |
| All other IEs | B4 | Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_FACH in PS" condition A4 except RB parameter set referred in 6.11.1a instead of 6.10 |

| Condition | Explanation | Version |
|-----------|---|---------|
| B1 | This IE is needed for " MBMS PtP Radio Bearer Setup when UE state is state 6-7" | |
| B2 | This IE is needed for " MBMS PtP Radio Bearer Setup when UE state is state 6-8" | |
| B3 | This IE is needed for " MBMS PtP Radio Bearer Setup, when UE state is 6-10" | |
| B4 | This IE is needed for " MBMS PtP Radio Bearer Setup, when UE state is 6-11" | |

Contents of RADIO BEARER SETUP COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked. |
| CHOICE mode | FDD |
| START | Not checked (if ciphering is OFF), check the presence if ciphering is ON. |
| Deferred measurement control reading | Not present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent. |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |
| Radio bearers for which reconfiguration would have succeeded | Not checked |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

| Information Element | Condition | Value/remark | Version | Index |
|--|---------------------|---|-----------------------|---------|
| Message Type | A1,A2,A3,A4,A5,A6 | | | RBC-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBC-002 |
| Integrity check info | | | | RBC-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBC-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBC-005 |
| Integrity protection mode info | | Not Present | | RBC-006 |
| Ciphering mode info | | Not Present | | RBC-007 |
| Activation time | A1,A2,A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBC-008 |
| Activation time | A4, A5,A6 | Not Present | | RBC-009 |
| Delay restriction flag | A1,A2,A3,A4,A5,A6 | Not Present | Rel-6 | RBC-010 |
| New U-RNTI | | Not Present | | RBC-011 |
| New C-RNTI | A1, A2, A3, A4, | Not Present | | RBC-012 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBC-013 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, | Not Present | R99 and Rel-4 only | RBC-014 |
| New H-RNTI | A6 | Not Present | Rel-5 | RBC-015 |
| New Primary E-RNTI | | Not Present | Rel-6 | RBC-016 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBC-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | RBC-018 |
| RRC State indicator | A5, A6 | CELL_FACH | | RBC-019 |
| UE Mobility State Indicator | | Not Present | Rel-7 | RBC-020 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A4,A5,A6 | Not Present | | RBC-021 |
| CN information info | | Not Present | | RBC-022 |
| URA identity | | Not Present | | RBC-023 |
| CHOICE specification mode | | Complete specification | Rel-5 | RBC-024 |
| RNC support for change of UE capability | | Not Present | Rel-7 | RBC-025 |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 | RBC-026 |
| RAB information to reconfigure list | | Not Present | | RBC-027 |
| RB information to reconfigure list | A1 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) | | RBC-028 |
| - RB information to reconfigure | | 1 | | RBC-029 |
| - RB identity | | Not Present | | RBC-030 |
| - PDCP info | | Not Present | | RBC-031 |
| - PDCP SN info | | Not Present | | RBC-032 |
| - RLC info | | Not Present | | RBC-033 |
| - RB mapping info | | Not Present | | RBC-034 |
| - RB stop/continue | | Not Present | | RBC-035 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBC-036 |
| - RB identity | | 2 | | RBC-037 |
| - PDCP info | | Not Present | | RBC-038 |
| - PDCP SN info | | Not Present | | RBC-039 |
| - RLC info | | Not Present | | RBC-040 |
| - RB mapping info | | Not Present | | RBC-041 |
| - RB stop/continue | | Not Present | | RBC-042 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBC-043 |
| - RB identity | | 3 | | RBC-044 |
| - PDCP info | | Not Present | | RBC-045 |
| - PDCP SN info | | Not Present | | RBC-046 |
| - RLC info | | Not Present | | RBC-047 |
| - RB mapping info | | Not Present | | RBC-048 |
| - RB stop/continue | | Not Present | | RBC-049 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBC-050 |
| - RB identity | | 4 | | RBC-051 |
| - PDCP info | | Not Present | | RBC-052 |
| - PDCP SN info | | Not Present | | RBC-053 |
| - RLC info | | Not Present | | RBC-054 |

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|-------------|--|---------|---------|
| - RB mapping info | | Not Present | | RBC-055 |
| - RB stop/continue | | Not Present | | RBC-056 |
| - RB information to reconfigure | | (TM DTCH) | | RBC-057 |
| - RB identity | | 10 | | RBC-058 |
| - PDCP info | | Not Present | | RBC-059 |
| - PDCP SN info | | Not Present | | RBC-060 |
| - RLC info | | Not Present | | RBC-061 |
| - RB mapping info | | Not Present | | RBC-062 |
| - RB stop/continue | | Not Present | | RBC-063 |
| RB information to reconfigure list | A2 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". | | RBC-064 |
| - RB information to reconfigure | | (UM DCCH for RRC) | | RBC-065 |
| - RB identity | | 1 | | RBC-066 |
| - PDCP info | | Not Present | | RBC-067 |
| - PDCP SN info | | Not Present | | RBC-068 |
| - RLC info | | Not Present | | RBC-069 |
| - RB mapping info | | Not Present | | RBC-070 |
| - RB stop/continue | | Not Present | | RBC-071 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBC-072 |
| - RB identity | | 2 | | RBC-073 |
| - PDCP info | | Not Present | | RBC-074 |
| - PDCP SN info | | Not Present | | RBC-075 |
| - RLC info | | Not Present | | RBC-076 |
| - RB mapping info | | Not Present | | RBC-077 |
| - RB stop/continue | | Not Present | | RBC-078 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBC-079 |
| - RB identity | | 3 | | RBC-080 |
| - PDCP info | | Not Present | | RBC-081 |
| - PDCP SN info | | Not Present | | RBC-082 |
| - RLC info | | Not Present | | RBC-083 |
| - RB mapping info | | Not Present | | RBC-084 |
| - RB stop/continue | | Not Present | | RBC-085 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBC-086 |
| - RB identity | | 4 | | RBC-087 |
| - PDCP info | | Not Present | | RBC-088 |
| - PDCP SN info | | Not Present | | RBC-089 |
| - RLC info | | Not Present | | RBC-090 |
| - RB mapping info | | Not Present | | RBC-091 |
| - RB stop/continue | | Not Present | | RBC-092 |
| - RB information to reconfigure | | (TM DTCH) | | RBC-093 |
| - RB identity | | 10 | | RBC-094 |
| - PDCP info | | Not Present | | RBC-095 |
| - PDCP SN info | | Not Present | | RBC-096 |
| - RLC info | | Not Present | | RBC-097 |
| - RB mapping info | | Not Present | | RBC-098 |
| - RB stop/continue | | Not Present | | RBC-099 |
| - RB information to reconfigure | | (TM DTCH) | | RBC-100 |
| - RB identity | | 11 | | RBC-101 |
| - PDCP info | | Not Present | | RBC-102 |
| - PDCP SN info | | Not Present | | RBC-103 |
| - RLC info | | Not Present | | RBC-104 |
| - RB mapping info | | Not Present | | RBC-105 |
| - RB stop/continue | | Not Present | | RBC-106 |
| - RB information to reconfigure | | (TM DTCH) | | RBC-107 |
| | | (This IE is needed for 12.2 kbps and 10.2 kbps) | | |
| - RB identity | | 12 | | RBC-108 |
| - PDCP info | | Not Present | | RBC-109 |
| - PDCP SN info | | Not Present | | RBC-110 |
| - RLC info | | Not Present | | RBC-111 |
| - RB mapping info | | Not Present | | RBC-112 |
| - RB stop/continue | | Not Present | | RBC-113 |
| RB information to reconfigure list | A3,A4,A5,A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". | | RBC-114 |
| - RB information to reconfigure | | (UM DCCH for RRC) | | RBC-115 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|--|---------|---------|
| - RB identity | | 1 | | RBC-116 |
| - PDCP info | | Not Present | | RBC-117 |
| - PDCP SN info | | Not Present | | RBC-118 |
| - RLC info | | Not Present | | RBC-119 |
| - RB mapping info | | Not Present | | RBC-120 |
| - RB stop/continue | | Not Present | | RBC-121 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBC-122 |
| - RB identity | | 2 | | RBC-123 |
| - PDCP info | | Not Present | | RBC-124 |
| - PDCP SN info | | Not Present | | RBC-125 |
| - RLC info | | Not Present | | RBC-126 |
| - RB mapping info | | Not Present | | RBC-127 |
| - RB stop/continue | | Not Present | | RBC-128 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBC-129 |
| - RB identity | | 3 | | RBC-130 |
| - PDCP info | | Not Present | | RBC-131 |
| - PDCP SN info | | Not Present | | RBC-132 |
| - RLC info | | Not Present | | RBC-133 |
| - RB mapping info | | Not Present | | RBC-134 |
| - RB stop/continue | | Not Present | | RBC-135 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBC-136 |
| - RB identity | | 4 | | RBC-137 |
| - PDCP info | | Not Present | | RBC-138 |
| - PDCP SN info | | Not Present | | RBC-139 |
| - RLC info | | Not Present | | RBC-140 |
| - RB mapping info | | Not Present | | RBC-141 |
| - RB stop/continue | | Not Present | | RBC-142 |
| - RB information to reconfigure | | (AM DTCH) | | RBC-143 |
| - RB identity | | 20 | | RBC-144 |
| - PDCP info | | Not Present | | RBC-145 |
| - PDCP SN info | | Not Present | | RBC-146 |
| - RLC info | | Not Present | | RBC-147 |
| - RB mapping info | | Not Present | | RBC-148 |
| - RB stop/continue | | Not Present | | RBC-149 |
| RB information to be affected | A1, A2, A3,A4,A5,A6 | Not Present | | RBC-150 |
| RB with PDCP context relocation info list | | Not Present | Rel-5 | RBC-151 |
| PDCP ROHC target mode | | Not Present | Rel-5 | RBC-152 |
| UL Transport channel information common for all transport channels | A1, A2, A5,A6 | Not Present | | RBC-153 |
| UL Transport channel information common for all transport channels | A3, A4 | | | RBC-154 |
| - PRACH TFCS | | Not Present | | RBC-155 |
| - CHOICE mode | | FDD | | RBC-156 |
| - TFC subset | | Not Present | | RBC-157 |
| - UL DCH TFCS | | | | RBC-158 |
| - CHOICE TFCI signalling | | Normal | | RBC-159 |
| - TFCI Field 1 information | | | | RBC-160 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBC-161 |
| - TFCS complete reconfigure information | | | | RBC-162 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | RBC-163 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set | | RBC-164 |
| - CTFC | | Reference to clause 6.10.2.4 Parameter Set | | RBC-165 |
| - Power offset information | | | | RBC-166 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBC-167 |
| - Gain factor β_c | | 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and | | RBC-168 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------|---|---------|---------|
| - Gain factor β_d | | below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBC-169 |
| - Reference TFC ID | | 15 | | RBC-170 |
| - CHOICE mode | | (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBC-171 |
| - Power offset P _{p-m} | | FDD | | RBC-172 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBC-173 |
| Added or Reconfigured UL TrCH information | A1, A2, A5,A6 | Not Present | | RBC-174 |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBC-175 |
| - Uplink transport channel type | | DCH | | RBC-176 |
| - UL Transport channel identity | | 5 | | RBC-177 |
| - TFS | | | | RBC-178 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBC-179 |
| - Dynamic Transport format information | | | | RBC-180 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBC-181 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBC-182 |
| - Transmission Time Interval | | Not Present | | RBC-183 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBC-184 |
| - CHOICE Logical channel list | | All | | RBC-185 |
| - Semi-static Transport Format information | | | | RBC-186 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBC-187 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBC-188 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBC-189 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBC-190 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBC-191 |
| - Uplink transport channel type | | DCH | | RBC-192 |
| - UL Transport channel identity | | 1 | | RBC-193 |
| - TFS | | | | RBC-194 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBC-195 |
| - Dynamic Transport format information | | | | RBC-196 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBC-197 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBC-198 |
| - Transmission Time Interval | | Not Present | | RBC-199 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBC-200 |
| - CHOICE Logical channel list | | All | | RBC-201 |
| - Semi-static Transport Format information | | | | RBC-202 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBC-203 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBC-204 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBC-205 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBC-206 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBC-207 |
| Added or Reconfigured UL TrCH information | A3 | (DCH for DTCH) | | RBC-208 |
| - Uplink transport channel type | | DCH | | RBC-209 |
| - UL Transport channel identity | | 1 | | RBC-210 |
| - TFS | | | | RBC-211 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBC-212 |
| - Dynamic Transport format information | | | | RBC-213 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBC-214 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBC-215 |
| - Transmission Time Interval | | Not Present | | RBC-216 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBC-217 |
| - CHOICE Logical channel list | | All | | RBC-218 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|--|---------|---------|
| - Semi-static Transport Format information | | | | RBC-219 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBC-220 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBC-221 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBC-222 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBC-223 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBC-224 |
| CHOICE mode | A1,A2,A3,A4,A5,A6 | Not Present | | RBC-225 |
| DL Transport channel information common for all transport channel | A1, A2, A5, A6 | Not Present | | RBC-226 |
| DL Transport channel information common for all transport channel | A3,A4 | | | RBC-227 |
| - SCCPCH TFCS | | Not Present | | RBC-228 |
| - CHOICE mode | | FDD | | RBC-229 |
| - CHOICE DL parameters | | Explicit | | RBC-230 |
| - DL DCH TFCS | | | | RBC-231 |
| - CHOICE TFCI Signalling | | Normal | | RBC-232 |
| - TFCI Field 1 Information | | | | RBC-233 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBC-234 |
| - TFCS complete reconfigure | | | | RBC-235 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | RBC-236 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 | | RBC-237 |
| - CTFC | | Reference to clause 6.10.2.4 Parameter Set | | RBC-238 |
| - Power offset information | | Not Present | | RBC-239 |
| Deleted DL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBC-240 |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present | | RBC-241 |
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBC-242 |
| - Downlink transport channel type | | DCH | | RBC-243 |
| - DL Transport channel identity | | 10 | | RBC-244 |
| - CHOICE DL parameters | | Same as UL | | RBC-245 |
| - Uplink transport channel type | | DCH | | RBC-246 |
| - UL TrCH identity | | 5 | | RBC-247 |
| - DCH quality target | | | | RBC-248 |
| - BLER Quality value | | Not Present | | RBC-249 |
| - Downlink transport channel type | | DCH | | RBC-250 |
| - DL Transport channel identity | | 6 | | RBC-251 |
| - CHOICE DL parameters | | Explicit | | RBC-252 |
| - TFS | | | | RBC-253 |
| - CHOICE Transport channel type | | Dedicated transport channel | | RBC-254 |
| - Dynamic transport format information | | | | RBC-255 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBC-256 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBC-257 |
| - Dynamic transport format information | | | | RBC-258 |
| - Transmission Time Interval | | Not Present | | RBC-259 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBC-260 |
| - Semi-static Transport Format information | | | | RBC-261 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBC-262 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBC-263 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBC-264 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBC-265 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBC-266 |
| - DCH quality target | | | | RBC-267 |
| - BLER Quality value | | -20 (-2.0) | | RBC-268 |
| Added or Reconfigured DL TrCH information | A3 | | | RBC-269 |
| - Downlink transport channel type | | DCH | | RBC-270 |
| - DL Transport channel identity | | 6 | | RBC-271 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------|---|---------|----------|
| - CHOICE DL parameters | | Explicit | | RBC-272 |
| - TFS | | | | RBC-273 |
| - CHOICE Transport channel type | | Dedicated transport channel | | RBC-274 |
| - Dynamic transport format information | | | | RBC-275 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBC-276 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBC-277 |
| - Dynamic transport format information | | | | RBC-278 |
| - Transmission Time Interval | | Not Present | | RBC-279 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBC-280 |
| - Semi-static Transport Format information | | | | RBC-281 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBC-282 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBC-283 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBC-284 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBC-285 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBC-286 |
| - DCH quality target | | | | RBC-287 |
| - BLER Quality value | | -20 (-2.0) | | RBC-288 |
| Preconfiguration CHOICE Mode | A5 | Not Present | Rel-5 | RBC-289 |
| - predefinedConfiguration Identity | | FDD | | RBC-290 |
| - defaultConfig | | Not Present | | RBC-291 |
| Frequency info | A1,A2,A3,A4,A5 | Not Present | | RBC-292 |
| - UARFCN uplink (Nu) | | Not present | | RBC-294 |
| | | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] | | |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBC-295 |
| Frequency info | A6 | Not Present | | RBC-296 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBC-297 |
| DTX-DRX Information | | Not Present | Rel-7 | RBC-298 |
| HS-SCCH less Information | | Not Present | Rel-7 | RBC-299 |
| MIMO parameters | | Not Present | Rel-7 | RBC-300 |
| CHOICE mode | A5 | Not Present | Rel-8 | RBC-301 |
| - MIMO N_cqi_typeA/M_cqi ratio | | Not Present | Rel-7 | RBC-302 |
| - MIMO pilot configuration | | Not Present | Rel-7 | RBC-303 |
| - Precoding weight set restriction | | Not Present | Rel-7 | RBC-304 |
| MIMO mode with four transmit antennas parameters | | Not Present | Rel-11 | RBC-304a |
| DCH Enhancements info FDD | | Not Present | Rel-12 | RBC-304b |
| Maximum allowed UL TX power | A1,A2,A3,A4,A5,A6 | 33dBm | | RBC-305 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | RBC-306 |
| -Uplink DPCH power control info | | | | RBC-307 |
| - DPCCH power offset | | -40 (-80dB) | | RBC-308 |
| - PC Preamble | | 1 frame | | RBC-309 |
| - SRB delay | | 7 frames | | RBC-310 |
| - Power Control Algorithm | | Algorithm1 | | RBC-311 |
| - TPC step size | | 0 (1dB) | | RBC-312 |
| - Δ_{ACK} | | Not Present | Rel-5 | RBC-313 |
| - Δ_{NACK} | | Not Present | Rel-5 | RBC-314 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 | RBC-315 |
| - Scrambling code type | | Long | | RBC-316 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBC-317 |
| - Number of DPDCH | | Not Present(1) | | RBC-318 |
| - spreading factor | | Reference to clause 6.10 Parameter Set | | RBC-319 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | RBC-320 |
| - Number of FBI bit | | Reference to clause 6.10 Parameter Set | | RBC-321 |
| - Number of TPC bits | | Not Present | Rel-7 | RBC-322 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBC-323 |
| CHOICE channel requirement | A5, A6 | Not Present | | RBC-324 |
| E-DCH Info | | Not Present | Rel-6 | RBC-325 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---------------------------|---|-----------------------|----------|
| Mac-es-e-resetIndicator | A5 | Not Present | Rel-6 | RBC-326 |
| CHOICE modeSpecificInfo | A5 | FDD | | RBC-327 |
| - e-DPCCH-Info | A5 | Not Present | | RBC-328 |
| - schedulingTransmConfiguration | A5 | Not Present | | RBC-329 |
| - ul-16QAM-Settings | A5 | Not Present | Rel-7 | RBC-330 |
| CHOICE Mode | A1,A2,A3,A4,A5,A6 | FDD | | RBC-331 |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only | RBC-332 |
| Uplink secondary cell info FDD | A5 | | Rel-9 | RBC-333 |
| Uplink CLTD info FDD | | Not Present | Rel-11 | RBC-333a |
| Uplink OLTD info FDD | | Not Present | Rel-11 | RBC-333b |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBC-334 |
| - Measurement Feedback Info | A5 | Not Present | Rel-5 | RBC-335 |
| - Choice Mode | A5 | FDD | | RBC-336 |
| - Downlink 64QAM configured | A5 | Not Present | Rel-7 | RBC-337 |
| Downlink information common for all radio links | A5, A6 | Not Present | | RBC-338 |
| Downlink information common for all radio links | A1, A2, A3 | | | RBC-339 |
| - Downlink DPCH info common for all RL | | | | RBC-340 |
| - Timing indicator | | Maintain | | RBC-341 |
| - CFN-targetSFN frame offset | | Not Present | | RBC-342 |
| - Downlink DPCH power control information | | | | RBC-343 |
| - DPC mode | | 0 (single) | | RBC-344 |
| - CHOICE mode | | FDD | | RBC-345 |
| - Power offset $P_{Pilot-DPCH}$ | | 0 | | RBC-346 |
| - DL rate matching restriction information | | Not Present | | RBC-347 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | RBC-348 |
| - Fixed or Flexible Position | | Reference to clause 6.10 Parameter Set | | RBC-349 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | RBC-350 |
| - CHOICE SF | | Reference to clause 6.10 Parameter Set | | RBC-351 |
| - DPCH compressed mode info | | Not Present | | RBC-352 |
| - TX Diversity mode | | None | | RBC-353 |
| - SSdT information | | Not Present | R99 and Rel-4 only | RBC-354 |
| - Default DPCH Offset Value | | Not Present | | RBC-355 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBC-356 |
| Downlink information common for all radio links | A4 | | | RBC-357 |
| - Downlink DPCH info common for all RL | | | | RBC-358 |
| - Timing indicator | | Initialize | | RBC-359 |
| - CFN-targetSFN frame offset | | Not Present | | RBC-360 |
| - Downlink DPCH power control information | | | | RBC-361 |
| - DPC mode | | 0 (single) | | RBC-362 |
| - CHOICE mode | | FDD | | RBC-363 |
| - Power offset $P_{Pilot-DPCH}$ | | 0 | | RBC-364 |
| - DL rate matching restriction information | | Not Present | | RBC-365 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | RBC-366 |
| - Fixed or Flexible Position | | Reference to clause 6.10 Parameter Set | | RBC-367 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | RBC-368 |
| - CHOICE SF | | Reference to clause 6.10 Parameter Set | | RBC-369 |
| - DPCH compressed mode info | | Not Present | | RBC-370 |
| - TX Diversity mode | | None | | RBC-371 |
| - SSdT information | | Not Present | R99 and Rel-4 only | RBC-372 |
| - Default DPCH Offset Value | | Present Arbitrary set to value 0..306688 by step of 512 | | RBC-373 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBC-374 |
| Downlink information per radio link list | A1, A2, A3 | | | RBC-375 |
| -Downlink information for each radio | | | | RBC-376 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|--------------------|---------|
| link | | FDD | | RBC-377 |
| - Choice mode | | | | RBC-378 |
| - Primary CPICH info | | | | RBC-379 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBC-380 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBC-381 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | RBC-382 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RBC-383 |
| - Downlink DPCH info for each RL | | | | RBC-384 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBC-385 |
| - DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBC-386 |
| - Secondary CPICH info | | Not Present | | RBC-387 |
| - Secondary scrambling code | | | | RBC-388 |
| - channelisation code | | | | RBC-389 |
| - DL channelisation code | | | | RBC-390 |
| - Secondary scrambling code | | 2 | | RBC-391 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set 0 | | RBC-392 |
| - Code number | | 0 | | RBC-393 |
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | RBC-394 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | RBC-395 |
| - SSST Cell Identity | | 0 | R99 and Rel-4 only | RBC-396 |
| - Closed loop timing adjustment mode | | Not Present | | RBC-397 |
| - E-AGCH Info | | Not present | Rel-6 | RBC-398 |
| - E-HICH Information | | Not present | Rel-6 | RBC-399 |
| - E-RGCH Information | | Not present | Rel-6 | RBC-400 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBC-401 |
| Downlink information per radio link list | A4 | | | RBC-402 |
| - Downlink information for each radio link | | | | RBC-403 |
| - Choice mode | | FDD | | RBC-404 |
| - Primary CPICH info | | | | RBC-405 |
| - Primary scrambling code | | | | RBC-406 |
| - PDSCH with SHO DCH info | | Ref. to the Default setting in clause 6.1 (FDD) | | |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBC-407 |
| - Serving HS-DSCH radio link indicator | | Not Present | R99 and Rel-4 only | RBC-408 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-5 | RBC-409 |
| - Downlink DPCH info for each RL | | FALSE | Rel-6 | RBC-410 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBC-411 |
| - DPCH frame offset | | Set to value : Default DPCH Offset Value mod 38 400 | | RBC-412 |
| - Secondary CPICH info | | Not Present | | RBC-413 |
| - Secondary scrambling code | | | | RBC-414 |
| - channelisation code | | | | RBC-415 |
| - DL channelisation code | | | | RBC-416 |
| | | | | RBC-417 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------|--|--------------------|----------|
| - Secondary scrambling code | | 2 | | RBC-418 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | RBC-419 |
| - Code number | | 0 | | RBC-420 |
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | RBC-421 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | RBC-422 |
| - SSdT Cell Identity | | 0 | | RBC-423 |
| - Closed loop timing adjustment mode | | Not Present | R99 and Rel-4 only | RBC-424 |
| - E-AGCH Info | | Not present | Rel-6 | RBC-425 |
| - E-HICH Information | | Not present | Rel-6 | RBC-426 |
| - E-RGCH Information | | Not present | Rel-6 | RBC-427 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBC-428 |
| - Downlink information for each radio link | A5 | | | RBC-429 |
| - Choice mode | | FDD | | RBC-430 |
| - Primary CPICH info | | | | RBC-431 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBC-432 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBC-433 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBC-434 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | RBC-435 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RBC-436 |
| - Downlink DPCH info for each RL | | Not present | | RBC-437 |
| - E-AGCH Info | | Not present | Rel-6 | RBC-438 |
| - E-HICH Information | | Not present | Rel-6 | RBC-439 |
| - E-RGCH Information | | Not present | Rel-6 | RBC-440 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBC-441 |
| - Downlink information for each radio link | A6 | | R99 | RBC-442 |
| - Choice mode | | FDD | | RBC-443 |
| - Primary CPICH info | | | | RBC-444 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBC-445 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBC-446 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBC-447 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RBC-448 |
| - Downlink DPCH info for each RL | | Not present | | RBC-449 |
| - E-AGCH Info | | Not present | Rel-6 | RBC-450 |
| - E-HICH Information | | Not present | Rel-6 | RBC-451 |
| - E-RGCH Information | | Not present | Rel-6 | RBC-452 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBC-453 |
| - Downlink information for each radio link | A6 | Not Present | Rel-4 only | RBC-454 |
| Downlink secondary cell info FDD | A5 | Not Present | Rel-8 | RBC-455 |
| Additional downlink secondary cell info list FDD | A5 | Not Present | Rel-10 | RBC-456 |
| - Downlink secondary cell info FDD | A5 | Not Present | Rel-10 | RBC-457 |
| Additional downlink secondary cell info list FDD 2 | A5 | Not Present | Rel-11 | RBC-457a |
| - Downlink secondary cell info FDD 2 | A5 | Not Present | Rel-11 | |
| MBMS PL Service Restriction | A1,A2,A3,A4,A5,A6 | Not Present | Rel-6 | RBC-458 |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------|-----------|--------------|---------|-------|
| Information | | | | |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|---|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |
| Radio bearers for which reconfiguration would have succeeded List | Not checked |

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked |
| CHOICE mode | FDD |
| Deferred measurement control reading | Not present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of RADIO BEARER RELEASE message: AM or UM

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------|---|--|---------|--------------------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | Rel-5 | RBR-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBR-002 RBR-003 |
| Integrity check info | | | | RBR-004 RBR-005 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBR-006 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|--------------------|---------|
| Integrity protection mode info | | Not Present | | RBR-007 |
| Ciphering mode info | | Not Present | | RBR-008 |
| Activation time | A1, A2, A3, A7, A8, A9, A10 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | Rel-5 | RBR-009 |
| Activation time | A4, A5, A6 | Not Present | | RBR-010 |
| New U-RNTI | | Not Present | | RBR-011 |
| New C-RNTI | A1,A2,A3,A4, A9 | Not Present | | RBR-012 |
| | | Not Present | | RBR-013 |
| New C-RNTI | A5, A6, A7, A8, A10 | '1010 1010 1010 1010' | Rel-5 | RBR-014 |
| | | | Rel-5 | RBR-015 |
| | | | Rel-5 | RBR-016 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | R99 and Rel-4 only | RBR-017 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, | Not Present | | RBR-018 |
| New Primary E-RNTI | | Not Present | Rel-5 | RBR-019 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBR-020 |
| RRC State indicator | A1,A2, A3, A4, A9 | CELL_DCH | Rel-6 | RBR-021 |
| | | | | RBR-022 |
| RRC State indicator | A5, A6, A7, A8, A10 | CELL_FACH | Rel-5 | RBR-023 |
| | | | | RBR-024 |
| UE Mobility State Indicator | | Not Present | Rel-5 | RBR-025 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A4,A5,A6, A7, A8, A9, A10 | Not Present | Rel-7 | RBR-026 |
| | | | | RBR-027 |
| CN information info | | Not Present | | RBR-028 |
| Signalling Connection release indication | | Not Present | | RBR-029 |
| URA identity | | Not Present | | RBR-030 |
| RNC support for change of UE capability | | Not Present | | RBR-031 |
| RAB information to reconfigure list | | Not Present | Rel-7 | RBR-032 |
| RB information to release | A1,A2, A7, A8 | Not Present | | RBR-033 |
| - RB identity | | 10 | | RBR-034 |
| RB information to release | A2, A8 | | | RBR-035 |
| - RB identity | | 11 | | RBR-036 |
| RB information to release | A2, A8 | | | RBR-037 |
| - RB identity | | 12 | | RBR-038 |
| RB information to release | A3, A4, A5, A6 | | | RBR-039 |
| - RB identity | | 20 | | RBR-040 |
| RB information to release | A9, A10 | | Rel-5 | RBR-041 |
| - RB identity | | 25 | | RBR-042 |
| RB information to reconfigure list | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBR-043 |
| | | | | RBR-044 |
| RB information to be affected | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | | RBR-045 |
| | | | Rel-5 | RBR-046 |
| Downlink counter synchronization info | A1,A2,A3,A4,A5,A6, A7, A8, A9, A10 | Not Present | | RBR-047 |
| | | | Rel-5 | RBR-048 |
| UL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TFCS reconfigured to fit the new transport channel configuration. | | RBR-049 |
| | | | Rel-5 | RBR-050 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|---------|---|
| Deleted UL TrCH Information | A1,A2, A3, A4, A5, A6, A7, A8 , A9, A10 | DCH 1 | Rel-5 | RBR-051 RBR-052 RBR-053 RBR-054 RBR-055 RBR-056 RBR-057 RBR-058 RBR-059 RBR-060 RBR-061 |
| - Uplink transport channel type - Transport channel identity | | | | |
| Deleted UL TrCH Information | A2, A8 | DCH 2 | | RBR-062 RBR-063 |
| - Uplink transport channel type - Transport channel identity | | | | |
| Deleted UL TrCH Information | A2, A8 | DCH 3 | | RBR-064 RBR-065 RBR-066 RBR-067 |
| - Uplink transport channel type - Transport channel identity | | | | |
| Added or Reconfigured UL TrCH information | A5, A6, A7, A8 , A10 | Not Present | Rel-5 | RBR-062 RBR-063 |
| Added or Reconfigured UL TrCH information | A1, A2, A3, A4 , A9 | TrCHs(DCH for DCCH) | Rel-5 | RBR-064 RBR-065 RBR-066 RBR-067 |
| - Uplink transport channel type - UL Transport channel identity - TFS | | DCH 5 | | |
| - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | | Dedicated transport channels | | RBR-068 RBR-069 RBR-070 |
| - Number of TBs and TTI List - Transmission Time Interval | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) (This IE is repeated for TFI number.) | | RBR-071 RBR-072 |
| - Number of Transport blocks | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RBR-073 |
| - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval | | All | | RBR-074 RBR-075 RBR-076 |
| - Type of channel coding | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RBR-077 |
| - Coding Rate | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RBR-078 |
| - Rate matching attribute | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RBR-079 |
| - CRC size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RBR-080 |
| DL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 | TFCS reconfigured to fit the new transport channel configuration. | | RBR-081 |
| Deleted DL TrCH Information | A1, A2, A3, A4, A5, A6, A7, A8 , A9 | | Rel-5 | RBR-082 RBR-083 |
| - Downlink transport channel type - Transport channel identity | | DCH 6 | Rel-5 | RBR-084 RBR-085 RBR-086 |
| Deleted DL TrCH Information | A2, A8 | DCH 7 | | RBR-087 RBR-088 RBR-089 |
| - Downlink transport channel type - Transport channel identity | | | | |
| Deleted DL TrCH Information | A2, A8 | DCH 8 | | RBR-090 RBR-091 RBR-092 RBR-093 |
| - Downlink transport channel type - Transport channel identity | | | | |
| Deleted DL TrCH Information | A9, A10 | | Rel-5 | |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|-----------------------------|---|
| - Downlink transport channel type - DL HS-DSCH MAC-d flow identity Added or Reconfigured DL TrCH information | A5, A6, A7, A8, A10 | HS-DSCH 0 Not Present | Rel-5 | RBR-094 RBR-095 RBR-096 |
| Added or Reconfigured DL TrCH information | A1, A2, A3, A4, A9 | 1 TrCHs(DCH for DCCH) | Rel-5 | RBR-097 RBR-098 |
| - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value Frequency info | A1,A2,A3,A4,A5, A7, A8, A9, A10 | DCH 10 Same as UL DCH 5 Not Present | Rel-5 | RBR-099 RBR-100 RBR-101 RBR-102 RBR-103 RBR-104 RBR-105 RBR-106 RBR-107 |
| - UARFCN uplink (Nu) | | Not present Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] | Rel-5 | RBR-108 RBR-109 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBR-110 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBR-111 |
| DTX-DRX Information | | Not Present | Rel-7 | RBR-112 |
| HS-SCCH less Information | | Not Present | Rel-7 | RBR-113 |
| MIMO parameters | | Not Present | Rel-7 | RBR-114 |
| Maximum allowed UL TX power | A6 | 33dBm | | RBR-115 |
| Frequency info | | Not Present | | RBR-116 |
| CHOICE <i>channel requirement</i> | A5, A6, A7, A8, A10 | Not Present | | RBR-117 |
| CHOICE channel requirement | A1, A2, A3, A4, A9 | Uplink DPCH info | Rel-5 | RBR-118 RBR-119 |
| - Uplink DPCH power control info | | | Rel-5 | RBR-120 |
| - DPCCH power offset | | -40 (-80dB) | | RBR-121 |
| - PC Preamble | | 1 frame | | RBR-122 |
| - SRB delay | | 7 frames | | RBR-123 |
| - Power Control Algorithm | | Algorithm1 | | RBR-124 |
| - Δ_{ACK} | | Not Present | Rel-5 | RBR-125 RBR-126 |
| - Δ_{NACK} | | Not Present | Rel-5 | RBR-127 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 | RBR-128 |
| - TPC step size | | 0 (1dB) | | RBR-129 |
| - Scrambling code type | | Long | | RBR-130 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBR-131 |
| - Number of DPDCH | | Not Present(1) | | RBR-132 |
| - spreading factor | | Reference to clause 6.10 Parameter Set | | RBR-133 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | RBR-134 |
| - Number of FBI bit | | Reference to clause 6.10 Parameter Set | | RBR-135 |
| - Number of TPC bits | | Not Present | Rel-7 | RBR-136 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBR-137 |
| E-DCH Info | | Not Present | Rel-6 | RBR-138 |
| CHOICE Mode | A1,A2,A3,A4,A5,A6, A7, A8, A9, A10 | FDD | | RBR-139 |
| - Downlink PDSCH information | | Not Present | Rel-5 R99 and Rel-4 only | RBR-140 RBR-141 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | RBR-142 |
| Downlink information common for all radio links | A5, A6, A7, | Not Present | | RBR-143 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------------------------|---|---|---------|
| Downlink information common for all radio links | A8 , A10 A1,A2, A3 , A9 | Maintain Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Not Present Not Present | Rel-5 | RBR-144 |
| | | | Rel-5 | RBR-145 |
| | | | Rel-5 | RBR-146 |
| | | | Rel-5 | RBR-147 |
| | | | Rel-5 | RBR-148 |
| | | | Rel-5 | RBR-149 |
| | | | Rel-5 | RBR-150 |
| | | | Rel-5 | RBR-151 |
| | | | Rel-5 | RBR-152 |
| | | | Rel-5 | RBR-153 |
| | | | Rel-5 | RBR-154 |
| | | | Rel-5 | RBR-155 |
| | | | Rel-5 | RBR-156 |
| | | | Rel-5 | RBR-157 |
| | | | Rel-5 | RBR-158 |
| | | | Rel-5 | RBR-159 |
| | | | Downlink information common for all radio links | A4 |
| R99 and Rel-4 only | RBR-161 | | | |
| Rel-5 | RBR-162 | | | |
| Rel-5 | RBR-163 | | | |
| Rel-5 | RBR-164 | | | |
| Rel-5 | RBR-165 | | | |
| Rel-5 | RBR-166 | | | |
| Rel-5 | RBR-167 | | | |
| Rel-5 | RBR-168 | | | |
| Rel-5 | RBR-169 | | | |
| Downlink information for each radio link list | A1,A2,A3 , A9 | Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Arbitrary set to value 0..306688 by step of 512 Not Present FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present 3 Reference to clause 6.10 Parameter Set 0 | Rel-5 | RBR-173 |
| | | | Rel-5 | RBR-174 |
| | | | Rel-5 | RBR-175 |
| | | | Rel-5 | RBR-176 |
| | | | Rel-5 | RBR-177 |
| | | | Rel-5 | RBR-178 |
| | | | Rel-5 | RBR-179 |
| | | | R99 and Rel-4 only | RBR-180 |
| | | | Rel-5 | RBR-181 |
| | | | Rel-5 | RBR-182 |
| | | | Rel-5 | RBR-183 |
| | | | Rel-5 | RBR-184 |
| | | | Rel-5 | RBR-185 |
| Rel-5 | RBR-186 | | | |
| Rel-5 | RBR-187 | | | |
| Downlink information for each radio link | A1,A2,A3 , A9 | Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present 3 Reference to clause 6.10 Parameter Set 0 | R99 and Rel-4 only | RBR-188 |
| | | | R99 and Rel-4 only | RBR-189 |
| | | | Rel-5 | RBR-190 |
| | | | Rel-5 | RBR-191 |
| | | | Rel-5 | RBR-192 |
| | | | Rel-5 | RBR-193 |
| | | | Rel-5 | RBR-194 |
| | | | Rel-5 | RBR-195 |
| | | | Rel-5 | RBR-196 |
| | | | Rel-5 | RBR-197 |
| | | | Rel-5 | RBR-198 |
| | | | Rel-5 | RBR-199 |
| | | | Rel-5 | RBR-200 |
| Rel-5 | RBR-201 | | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------|--|--------------------|---------|
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | RBR-202 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | RBR-203 |
| - SSdT Cell Identity | | 0 | | RBR-204 |
| - Closed loop timing adjustment mode | | Not Present | R99 and Rel-4 only | RBR-205 |
| - E-AGCH Info | | Not present | Rel-6 | RBR-206 |
| - E-HICH Information | | Not present | Rel-6 | RBR-207 |
| - E-RGCH Information | | Not present | Rel-6 | RBR-208 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBR-209 |
| Downlink information for each radio link list | A4 | | | RBR-210 |
| - Downlink information for each radio link | | | | RBR-211 |
| - Choice mode | | FDD | | RBR-212 |
| - Primary CPICH info | | | | RBR-213 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBR-214 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBR-215 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBR-216 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | RBR-217 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RBR-218 |
| - Downlink DPCH info for each RL | | | | RBR-219 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBR-220 |
| - DPCH frame offset | | Set to value : Default DPCH Offset Value mod 38 400 | | RBR-221 |
| - Secondary CPICH info | | Not Present | | RBR-222 |
| - Secondary scrambling code | | | | RBR-223 |
| - channelisation code | | | | RBR-224 |
| - DL channelisation code | | | | RBR-225 |
| - Secondary scrambling code | | 3 | | RBR-226 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | RBR-227 |
| - Code number | | 0 | | RBR-228 |
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | RBR-229 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | RBR-230 |
| - SSdT Cell Identity | | 0 | | RBR-231 |
| - Closed loop timing adjustment mode | | Not Present | R99 and Rel-4 only | RBR-232 |
| - E-AGCH Info | | Not present | Rel-6 | RBR-233 |
| - E-HICH Information | | Not present | Rel-6 | RBR-234 |
| - E-RGCH Information | | Not present | Rel-6 | RBR-235 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBR-236 |
| - Downlink information for each radio link | A5, A7, A8 | | | RBR-237 |
| - Choice mode | | FDD | | RBR-238 |
| - Primary CPICH info | | | | RBR-239 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBR-240 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBR-241 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBR-242 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--------------|--------------------|---------|
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | RBR-243 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RBR-244 |
| - Downlink DPCH info for each RL | | Not present | | RBR-245 |
| - E-AGCH Info | | Not present | Rel-6 | RBR-246 |
| - E-HICH Information | | Not present | Rel-6 | RBR-247 |
| - E-RGCH Information | | Not present | Rel-6 | RBR-248 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBR-249 |
| - Downlink information for each radio link | A6, A10 | Not Present | | RBR-250 |
| MBMS PL Service Restriction Information | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBR-251 |
| MBMS RB list released to change transfer mode | | Not Present | Rel-6 | RBR-252 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE need for "Non speech in CS" | |
| A2 | This IE need for "Speech in CS" | |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS" | |
| A8 | This IE need for "Speech to CELL_FACH from CELL_DCH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS" | Rel-5 |

Contents of RADIO BEARER RELEASE COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked. |
| CHOICE mode | FDD |
| Deferred measurement control reading | Not present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |
| Radio bearers for which reconfiguration would have | Not checked |

succeeded

Contents of RRC CONNECTION REQUEST message: TM

| Information Element | Condition | Value/remark | Version |
|---|-----------|--|---------|
| Message Type | | | |
| Predefined configuration status information | | To be checked against requirement if specified | Rel-5 |
| Initial UE identity | | | |
| - CHOICE UE id type | | | |
| - TMSI and LAI (GSM-MAP) | | Set to the UE's TMSI and LAI. | |
| Establishment cause | | To be checked against requirement if specified | |
| Protocol error indicator | | FALSE | |
| UE Specific Behaviour Information 1 idle | | This IE will not be checked by default behaviour, but in specific test case. | |
| Domain indicator | | To be checked against requirement if specified | Rel-6 |
| Call type | | To be checked against requirement if specified | Rel-6 |
| UE capability indication | | To be checked against requirement if specified | Rel-6 |
| Support for F-DPCH | A1 | TRUE | Rel-6 |
| Support for F-DPCH | A2 | Not Present | Rel-6 |
| UE Mobility State Indicator | | Not Present | Rel-7 |
| Support for Enhanced F-DPCH | | To be checked against requirement if specified | Rel-7 |
| HS-PDSCH in CELL_FACH | | To be checked against requirement if specified | Rel-7 |
| MAC-ehs support | | To be checked against requirement if specified | Rel-7 |
| DPCCH Discontinuous Transmission support | | To be checked against requirement if specified | Rel-7 |
| Measured results on RACH | | To be checked against requirement if specified | Rel-4 |
| Access stratum release indicator | | To be checked against requirement if specified | Rel-4 |

| Condition | Explanation |
|-----------|--|
| A1 | This IE need to be set to TRUE when F-DPCH is fully supported by the UE. |
| A2 | This IE need to be absent when F-DPCH is not fully supported by the UE. |

Contents of RRC CONNECTION REJECT message: UM

| Information Element | Value/remark |
|----------------------------|---|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Initial UE identity | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message. |
| Rejection cause | Unspecified |
| Wait Time | 0 |
| Redirection info | Not Present |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark | Version |
|-----------------------------|--|------------|
| Message Type | | |
| U-RNTI | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | R99, Rel-4 |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| CHOICE identity type | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | Rel-5 |
| - U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| - Group identity | [FFS] | |
| - Group release information | [FFS] | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. | |

| | | |
|---------------------------------------|--|-------|
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number N308 | SS provides the value of this IE, from its internal counter. 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). | |
| Release cause | Normal event | |
| UE Mobility State Indicator | Not Present | Rel-7 |
| Rplmn information | Not Present | |

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element | Semantics description |
|-------------------------------|---|
| Message Type | |
| RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message. |
| Integrity check info | |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I |
| Error indication | Not checked |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH or in CELL_FACH)

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------------|---|----------------------------------|--|
| Message Type | A1, A2, A3 , A4, A5, A6 | | | RCS-001 |
| Initial UE identity | | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RCS-003 |
| Activation time | | Not Present(Now) | | RCS-004 |
| New U-RNTI | | | | RCS-005 |
| - SRNC identity | | 0000 0000 0001B | | RCS-006 |
| - S-RNTI | | 0000 0000 0000 0000 0001B | | RCS-007 |
| New C-RNTI | A1, A2, A3 A4, A6 | Not present '1010 1010 1010 1010' | Rel-7 | RCS-008 RCS-009 |
| New H-RNTI | A1 A2 A3, A4 A5, A6 | Not present '1010 1010 1010 1010' | Rel-6 Rel-6 Rel-7 Rel-8 | RCS-010 RCS-011 RCS-012 RCS-013 |
| New Primary E-RNTI | A1 A2, A3 A5, A6 | Not present '1010 1010 1010 1010' | Rel-6 Rel-7 Rel-8 | RCS-014 RCS-015 RCS-016 |
| New Secondary E-RNTI | | Not present | Rel-6 | RCS-017 |
| RRC State Indicator | | CELL_DCH | | RCS-018 |
| RRC State Indicator | A4, A6 | CELL_FACH | | RCS-019 |
| UTRAN DRX cycle length coefficient | | 9 | | RCS-020 |
| Capability update requirement | | | | RCS-021 |
| - UE radio access FDD capability update requirement | | TRUE | | RCS-022 |
| - UE radio access TDD capability update requirement | | FALSE | | RCS-023 |
| - UE radio access 3.84 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCS-024 |
| - UE radio access 1.28 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCS-025 |
| - System specific capability update requirement list | | GSM | | RCS-026 |
| - System specific capability update requirement list | UTRAN to E-UTRA | GSM, EUTRA | Rel-8 | NOTE 2 |
| RNC support for change of UE capability | | FALSE | Rel-7 | RCS-027 |

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------------|-----------|--|---------|---------|
| CHOICE <i>specification mode</i> | | Complete specification | Rel-5 | RCS-028 |
| - Complete specification | | | Rel-5 | RCS-029 |
| - Signalling RB information to setup | A1 | (UM DCCH for RRC) | | RCS-030 |
| - RB identity | | Not Present | | RCS-031 |
| - CHOICE RLC info type | | | | RCS-032 |
| - RLC info | | | | RCS-033 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS-034 |
| - Transmission RLC discard | | Not Present | | RCS-035 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS-036 |
| - DL UM RLC LI size | | 7 bit | Rel-6 | RCS-037 |
| - One sided RLC re-establishment | | FALSE | Rel-6 | RCS-038 |
| - RB mapping info | | | | RCS-039 |
| - Information for each multiplexing | | 2 RBMuxOptions | | RCS-040 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RCS-041 |
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS-042 |
| - Uplink transport channel type | | DCH | | RCS-043 |
| - UL Transport channel identity | | 5 | | RCS-044 |
| - Logical channel identity | | 1 | | RCS-045 |
| - CHOICE RLC size list | | Configured | | RCS-046 |
| - MAC logical channel priority | | 1 | | RCS-047 |
| - Downlink RLC logical channel | | | | RCS-048 |
| info | | | | |
| - Number of RLC logical | | 1 | | RCS-049 |
| channels | | | | |
| - Downlink transport channel | | DCH | | RCS-050 |
| type | | | | |
| - DL DCH Transport channel | | 10 | | RCS-051 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RCS-052 |
| identity | | | | |
| - Logical channel identity | | 1 | | RCS-053 |
| - RLC logical channel mapping | | Not Present | | RCS-054 |
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS-055 |
| - Uplink transport channel type | | RACH | | RCS-056 |
| - UL Transport channel identity | | Not Present | | RCS-057 |
| - Logical channel identity | | 1 | | RCS-058 |
| - CHOICE RLC size list | | Explicit List | | RCS-059 |
| - RLC size index | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-060 |
| - MAC logical channel priority | | 1 | | RCS-061 |
| - Downlink RLC logical channel | | | | RCS-062 |
| info | | | | |
| - Number of RLC logical | | 1 | | RCS-063 |
| channels | | | | |
| - Downlink transport channel | | FACH | | RCS-064 |
| type | | | | |
| - DL DCH Transport channel | | Not Present | | RCS-065 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RCS-066 |
| identity | | | | |
| - Logical channel identity | | 1 | | RCS-067 |
| - Signalling RB information to setup | A2 | (UM DCCH for RRC) | Rel-6 | RCS-068 |
| - RB identity | | Not Present | | RCS-069 |
| - CHOICE RLC info type | | | | RCS-070 |
| - RLC info | | | | RCS-071 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS-072 |
| - Transmission RLC discard | | Not Present | | RCS-073 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS-074 |
| - DL UM RLC LI size | | 7 bit | Rel-6 | RCS-075 |
| - One sided RLC re-establishment | | FALSE | Rel-6 | RCS-076 |
| - RB mapping info | | | | RCS-077 |
| - Information for each multiplexing | | 1 RBMuxOption | | RCS-078 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RCS-079 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------|---------|---------|
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS-080 |
| - Uplink transport channel type | | E-DCH | | RCS-081 |
| - Logical channel identity | | 1 | | RCS-082 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-083 |
| - DDI | | 1 | | RCS-084 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-085 |
| - RLC PDU size | | 144 bits | | RCS-086 |
| - Include in scheduling info | | FALSE | | RCS-087 |
| - MAC logical channel priority | | 1 | | RCS-088 |
| - Downlink RLC logical channel | | | | RCS-089 |
| info | | | | |
| - Number of RLC logical channels | | 1 | | RCS-090 |
| channels | | | | |
| - Downlink transport channel type | | HS-DSCH | | RCS-091 |
| identity | | | | |
| - DL DCH Transport channel identity | | Not present | | RCS-092 |
| identity | | | | |
| - DL DSCH Transport channel identity | | Not Present | | RCS-093 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS-094 |
| identity | | | | |
| - Logical channel identity | | 1 | | RCS-095 |
| - Signalling RB information to setup | A3 | (UM DCCH for RRC) | Rel-7 | RCS-096 |
| | A5, A6 | | Rel-8 | RCS-097 |
| - RB identity | | Not present | | RCS-098 |
| - CHOICE RLC info type | | | | RCS-099 |
| - RLC info | | | | RCS-100 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS-101 |
| - Transmission RLC discard | | Not Present | | RCS-102 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS-103 |
| - DL UM RLC LI size | | 7 bit | | RCS-104 |
| - One sided RLC re-establishment | | FALSE | | RCS-105 |
| - Alternative E-bit interpretation | | TRUE | | RCS-106 |
| - Use special value of HE field | | Not present | | RCS-107 |
| - RB mapping info | | | | RCS-108 |
| - Information for each multiplexing option | | 1 RBmuxOption | | RCS-109 |
| indicator | | | | |
| - RLC logical channel mapping | | Not Present | | RCS-110 |
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS-111 |
| - Uplink transport channel type | | E-DCH | | RCS-112 |
| - Logical channel identity | | 1 | | RCS-113 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-114 |
| - DDI | | 1 | | RCS-115 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RCS-116 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-117 |
| - RLC PDU size | | 144 bits | | RCS-118 |
| - Include in scheduling info | | FALSE | | RCS-119 |
| - MAC logical channel priority | | 1 | | RCS-120 |
| - Downlink RLC logical channel | | | | RCS-121 |
| info | | | | |
| - Number of RLC logical channels | | 1 | | RCS-122 |
| channels | | | | |
| - Downlink transport channel type | | HS-DSCH | | RCS-123 |
| identity | | | | |
| - DL DCH Transport channel identity | | Not present | | RCS-124 |
| identity | | | | |
| - DL DSCH Transport channel identity | | Not Present | | RCS-125 |
| identity | | | | |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS-126 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-127 |
| Queue Id | | | | |
| - Logical channel identity | | 1 | | RCS-128 |
| - Signalling RB information to setup | A4 | (UM DCCH for RRC) | Rel-7 | RCS-129 |
| - RB identity | | Not present | | RCS-130 |
| - CHOICE RLC info type | | | | RCS-131 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|---------|
| - RLC info | | UM RLC | | RCS-132 |
| - CHOICE Uplink RLC mode | | Not Present | | RCS-133 |
| - Transmission RLC discard | | UM RLC | | RCS-134 |
| - CHOICE Downlink RLC mode | | 7 bit | | RCS-135 |
| - DL UM RLC LI size | | FALSE | | RCS-136 |
| - One sided RLC re-establishment | | Not Present | | RCS-137 |
| - Alternative E-bit interpretation | | Not Present | | RCS-138 |
| - Use special value of HE field | | Not Present | | RCS-139 |
| - RB mapping info | | 1 RBMuxOption | | RCS-140 |
| - Information for each multiplexing option | | Not Present | | RCS-141 |
| - RLC logical channel mapping indicator | | 1 | | RCS-142 |
| - Number of RLC logical channels | | RACH | | RCS-143 |
| - Uplink transport channel type | | Not Present | | RCS-144 |
| - UL Transport channel identity | | 1 | | RCS-145 |
| - Logical channel identity | | According to clause 6.10.2.4.4.1 (combinations on PRACH) | | RCS-146 |
| - CHOICE RLC size list | | 1 | | RCS-147 |
| - MAC logical channel priority | | 1 | | RCS-148 |
| - Downlink RLC logical channel info | | 1 | | RCS-149 |
| - Number of RLC logical channels | | HS-DSCH | | RCS-150 |
| - Downlink transport channel type | | Not present | | RCS-151 |
| - DL DCH Transport channel identity | | Not Present | | RCS-152 |
| - DL DSCH Transport channel identity | | MAC-ehs | | RCS-153 |
| - CHOICE DL MAC header type | | 1 | | RCS-154 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-155 |
| Queue Id | | 1 | | RCS-156 |
| - Logical channel identity | | | | |
| - Signalling RB information to setup | A1 | (AM DCCH for RRC) | | RCS-157 |
| - RB identity | | Not Present | | RCS-158 |
| - CHOICE RLC info type | | AM RLC | | RCS-159 |
| - RLC info | | No discard | | RCS-160 |
| - CHOICE Uplink RLC mode | | 15 | | RCS-161 |
| - Transmission RLC discard | | 32 | | RCS-162 |
| - SDU discard mode | | 500 | | RCS-163 |
| - MAX_DAT | | 1 | | RCS-164 |
| - Transmission window size | | 200 | | RCS-165 |
| - Timer_RST | | 200 | | RCS-166 |
| - Max_RST | | Not Present | | RCS-167 |
| - Polling info | | 1 | | RCS-168 |
| - Timer_poll_prohibit | | 200 | | RCS-169 |
| - Timer_poll | | Not Present | | RCS-170 |
| - Poll_PDU | | 1 | | RCS-171 |
| - Poll_SDU | | TRUE | | RCS-172 |
| - Last transmission PDU poll | | TRUE | | RCS-173 |
| - Last retransmission PDU poll | | 99 | | RCS-174 |
| - Poll_Window | | Not Present | | RCS-175 |
| - Timer_poll_periodic | | AM RLC | | RCS-176 |
| - CHOICE Downlink RLC mode | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCS-177 |
| - DL RLC PDU size | | TRUE | | RCS-178 |
| - In-sequence delivery | | 32 | | RCS-179 |
| - Receiving window size | | 200 | | RCS-180 |
| - Downlink RLC status info | | Not Present | | RCS-181 |
| - Timer_status_prohibit | | Not Present | | RCS-182 |
| - Timer_EPC | | TRUE | | RCS-183 |
| - Missing PDU indicator | | Not Present | | RCS-184 |
| - Timer_STATUS_periodic | | Not Present | | RCS-185 |
| - RB mapping info | | 2 RBMuxOptions | | RCS-186 |
| - Information for each multiplexing option | | | | RCS-187 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|---------|
| - RLC logical channel mapping indicator | | Not Present | | RCS-188 |
| - Number of RLC logical channels | | 1 | | RCS-189 |
| - Uplink transport channel type | | DCH | | RCS-190 |
| - UL Transport channel identity | | 5 | | RCS-191 |
| - Logical channel identity | | 2 | | RCS-192 |
| - CHOICE RLC size list | | Configured | | RCS-193 |
| - MAC logical channel priority | | 2 | | RCS-194 |
| - Downlink RLC logical channel info | | | | RCS-195 |
| - Number of RLC logical channels | | 1 | | RCS-196 |
| - Downlink transport channel type | | DCH | | RCS-197 |
| - DL DCH Transport channel identity | | 10 | | RCS-198 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-199 |
| - Logical channel identity | | 2 | | RCS-200 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-201 |
| - Number of RLC logical channels | | 1 | | RCS-202 |
| - Uplink transport channel type | | RACH | | RCS-203 |
| - UL Transport channel identity | | Not Present | | RCS-204 |
| - Logical channel identity | | 2 | | RCS-205 |
| - CHOICE RLC size list | | Explicit List | | RCS-206 |
| - RLC size index | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-207 |
| - MAC logical channel priority | | 2 | | RCS-208 |
| - Downlink RLC logical channel info | | | | RCS-209 |
| - Number of RLC logical channels | | 1 | | RCS-210 |
| - Downlink transport channel type | | FACH | | RCS-211 |
| - DL DCH Transport channel identity | | Not Present | | RCS-212 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-213 |
| - Logical channel identity | | 2 | | RCS-214 |
| - Signalling RB information to setup | A2 | (AM DCCH for RRC) | Rel-6 | RCS-215 |
| - RB identity | | Not Present | | RCS-216 |
| - CHOICE RLC info type | | | | RCS-217 |
| - RLC info | | | | RCS-218 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-219 |
| - Transmission RLC discard | | | | RCS-220 |
| - SDU discard mode | | No discard | | RCS-221 |
| - MAX_DAT | | 15 | | RCS-222 |
| - Transmission window size | | 32 | | RCS-223 |
| - Timer_RST | | 500 | | RCS-224 |
| - Max_RST | | 1 | | RCS-225 |
| - Polling info | | | | RCS-226 |
| - Timer_poll_prohibit | | 200 | | RCS-227 |
| - Timer_poll | | 200 | | RCS-228 |
| - Poll_PDU | | Not Present | | RCS-229 |
| - Poll_SDU | | 1 | | RCS-230 |
| - Last transmission PDU poll | | TRUE | | RCS-231 |
| - Last retransmission PDU poll | | TRUE | | RCS-232 |
| - Poll_Window | | 99 | | RCS-233 |
| - Timer_poll_periodic | | Not Present | | RCS-234 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-235 |
| - In-sequence delivery | | TRUE | | RCS-236 |
| - Receiving window size | | 32 | | RCS-237 |
| - Downlink RLC status info | | | | RCS-238 |
| - Timer_status_prohibit | | 200 | | RCS-239 |
| - Timer_EPC | | Not Present | | RCS-240 |
| - Missing PDU indicator | | TRUE | | RCS-241 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|---------|
| - Timer_STATUS_periodic | | Not Present | | RCS-242 |
| - RB mapping info | | | | RCS-243 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-244 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-245 |
| - Number of RLC logical channels | | 1 | | RCS-246 |
| - Uplink transport channel type | | E-DCH | | RCS-247 |
| - Logical channel identity | | 2 | | RCS-248 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-249 |
| - DDI | | 2 | | RCS-250 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-251 |
| - RLC PDU size | | 144 bits | | RCS-252 |
| - Include in scheduling info | | FALSE | | RCS-253 |
| - MAC logical channel priority | | 2 | | RCS-254 |
| - Downlink RLC logical channel info | | | | RCS-255 |
| - Number of RLC logical channels | | 1 | | RCS-256 |
| - Downlink transport channel type | | HS-DSCH | | RCS-257 |
| - DL DCH Transport channel identity | | Not Present | | RCS-258 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-259 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS-260 |
| - Logical channel identity | | 2 | | RCS-261 |
| - Signalling RB information to setup | A3 | (AM DCCH for RRC) | Rel-7 | RCS-262 |
| | A5, A6 | | Rel-8 | RCS-263 |
| - RB identity | | Not present | | RCS-264 |
| - CHOICE RLC info type | | | | RCS-265 |
| - RLC info | | | | RCS-266 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-267 |
| - Transmission RLC discard | | | | RCS-268 |
| - SDU discard mode | | No discard | | RCS-269 |
| - MAX_DAT | | 15 | | RCS-270 |
| - Transmission window size | | 32 | | RCS-271 |
| - Timer_RST | | 500 | | RCS-272 |
| - Max_RST | | 1 | | RCS-273 |
| - Polling info | | | | RCS-274 |
| - Timer_poll_prohibit | | 200 | | RCS-275 |
| - Timer_poll | | 200 | | RCS-276 |
| - Poll_PDU | | Not Present | | RCS-277 |
| - Poll_SDU | | 1 | | RCS-278 |
| - Last transmission PDU poll | | TRUE | | RCS-279 |
| - Last retransmission PDU poll | | TRUE | | RCS-280 |
| - Poll_Window | | 99 | | RCS-281 |
| - Timer_poll_periodic | | Not Present | | RCS-282 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-283 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RCS-284 |
| - Length indicator size | | 7 | | RCS-285 |
| - In-sequence delivery | | TRUE | | RCS-286 |
| - Receiving window size | | 32 | | RCS-287 |
| - Downlink RLC status info | | | | RCS-288 |
| - Timer_status_prohibit | | 200 | | RCS-289 |
| - Timer_EPC | | Not Present | | RCS-290 |
| - Missing PDU indicator | | TRUE | | RCS-291 |
| - Timer_STATUS_periodic | | Not Present | | RCS-292 |
| - Alternative E-bit interpretation | | Not Present | | RCS-293 |
| - Use special value of HE field | | TRUE | | RCS-294 |
| - RB mapping info | | | | RCS-295 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-296 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-297 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|---------|
| - Number of RLC logical channels | | 1 | Rel-8 | RCS-298 |
| - Uplink transport channel type | | E-DCH | | RCS-299 |
| - Logical channel identity | | 2 | | RCS-300 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-301 |
| - DDI | | 2 | | RCS-302 |
| - CHOICE RLC PDU size | | Fixed size | | RCS-303 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-304 |
| - RLC PDU size | | 144 bits | | RCS-305 |
| - Include in scheduling info | | FALSE | | RCS-306 |
| - MAC logical channel priority | | 2 | | RCS-307 |
| - Downlink RLC logical channel info | | | | RCS-308 |
| - Number of RLC logical channels | | 1 | | RCS-309 |
| - Downlink transport channel type | | HS-DSCH | | RCS-310 |
| - DL DCH Transport channel identity | | Not Present | | RCS-311 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-312 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | RCS-313 | |
| - DL HS-DSCH MAC-ehs | | 1 | RCS-314 | |
| Queue Id | | | | |
| - Logical channel identity | | 2 | | RCS-315 |
| - Signalling RB information to setup | A4 | (AM DCCH for RRC) | Rel-7 | RCS-316 |
| - RB identity | | Not present | | RCS-317 |
| - CHOICE RLC info type | | | | RCS-318 |
| - RLC info | | | | RCS-319 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-320 |
| - Transmission RLC discard | | | | RCS-321 |
| - SDU discard mode | | No discard | | RCS-322 |
| - MAX_DAT | | 15 | | RCS-323 |
| - Transmission window size | | 32 | | RCS-324 |
| - Timer_RST | | 500 | | RCS-325 |
| - Max_RST | | 1 | | RCS-326 |
| - Polling info | | | | RCS-327 |
| - Timer_poll_prohibit | | 200 | | RCS-328 |
| - Timer_poll | | 200 | | RCS-329 |
| - Poll_PDU | | Not Present | | RCS-330 |
| - Poll_SDU | | 1 | | RCS-331 |
| - Last transmission PDU poll | | TRUE | | RCS-332 |
| - Last retransmission PDU poll | | TRUE | | RCS-333 |
| - Poll_Window | | 99 | | RCS-334 |
| - Timer_poll_periodic | | Not Present | | RCS-335 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-336 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RCS-337 |
| - Length indicator size | | 7 | | RCS-338 |
| - In-sequence delivery | | TRUE | | RCS-339 |
| - Receiving window size | | 32 | | RCS-340 |
| - Downlink RLC status info | | | | RCS-341 |
| - Timer_status_prohibit | | 200 | | RCS-342 |
| - Timer_EPC | | Not Present | | RCS-343 |
| - Missing PDU indicator | | TRUE | | RCS-344 |
| - Timer_STATUS_periodic | | Not Present | | RCS-345 |
| - Alternative E-bit interpretation | | Not Present | | RCS-346 |
| - Use special value of HE field | | Not Present | | RCS-347 |
| - RB mapping info | | | | RCS-348 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-349 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-350 |
| - Number of RLC logical channels | | 1 | | RCS-351 |
| - Uplink transport channel type | | RACH | | RCS-352 |
| - UL Transport channel identity | | Not Present | RCS-353 | |
| - Logical channel identity | | 2 | RCS-354 | |
| - CHOICE RLC size list | | Explicit List | RCS-355 | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|---------|
| - RLC size index | | According to clause 6.10.2.4.4.1 (combinations on PRACH) | | RCS-356 |
| - MAC logical channel priority | | 2 | | RCS-357 |
| - Downlink RLC logical channel info | | | | RCS-358 |
| - Downlink transport channel type | | HS-DSCH | | RCS-359 |
| - DL DCH Transport channel identity | | Not Present | | RCS-360 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-361 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS-362 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-363 |
| Queue Id | | | | |
| - Logical channel identity | | 2 | | RCS-364 |
| - Signalling RB information to setup | A1 | (AM DCCH for NAS_DT High priority) | | RCS-365 |
| - RB identity | | Not Present | | RCS-366 |
| - CHOICE RLC info type | | | | RCS-367 |
| - RLC info | | | | RCS-368 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-369 |
| - Transmission RLC discard | | | | RCS-370 |
| - SDU discard mode | | No discard | | RCS-371 |
| - MAX_DAT | | 15 | | RCS-372 |
| - Transmission window size | | 32 | | RCS-373 |
| - Timer_RST | | 500 | | RCS-374 |
| - Max_RST | | 1 | | RCS-375 |
| - Polling info | | | | RCS-376 |
| - Timer_poll_prohibit | | 200 | | RCS-377 |
| - Timer_poll | | 200 | | RCS-378 |
| - Poll_PDU | | Not present | | RCS-379 |
| - Poll_SDU | | 1 | | RCS-380 |
| - Last transmission PDU poll | | TRUE | | RCS-381 |
| - Last retransmission PDU poll | | TRUE | | RCS-382 |
| - Poll_Window | | 99 | | RCS-383 |
| - Timer_poll_periodic | | Not Present | | RCS-384 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-385 |
| - DL RLC PDU size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCS-386 |
| - In-sequence delivery | | TRUE | | RCS-387 |
| - Receiving window size | | 32 | | RCS-388 |
| - Downlink RLC status info | | | | RCS-389 |
| - Timer_status_prohibit | | 200 | | RCS-390 |
| - Timer_EPC | | Not present | | RCS-391 |
| - Missing PDU indicator | | TRUE | | RCS-392 |
| - Timer_STATUS_periodic | | Not Present | | RCS-393 |
| - RB mapping info | | | | RCS-394 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS-395 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-396 |
| - Number of RLC logical channels | | 1 | | RCS-397 |
| - Uplink transport channel type | | DCH | | RCS-398 |
| - UL Transport channel identity | | 5 | | RCS-399 |
| - Logical channel identity | | 3 | | RCS-400 |
| - CHOICE RLC size list | | Configured | | RCS-401 |
| - MAC logical channel priority | | 3 | | RCS-402 |
| - Downlink RLC logical channel info | | | | RCS-403 |
| - Number of RLC logical channels | | 1 | | RCS-404 |
| - Downlink transport channel type | | DCH | | RCS-405 |
| - DL DCH Transport channel identity | | 10 | | RCS-406 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-407 |
| - Logical channel identity | | 3 | | RCS-408 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|---------|
| - RLC logical channel mapping indicator | | Not Present | | RCS-409 |
| - Number of RLC logical channels | | 1 | | RCS-410 |
| - Uplink transport channel type | | RACH | | RCS-411 |
| - UL Transport channel identity | | Not Present | | RCS-412 |
| - Logical channel identity | | 3 | | RCS-413 |
| - CHOICE RLC size list | | Explicit List | | RCS-414 |
| - RLC size index | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-415 |
| - MAC logical channel priority | | 3 | | RCS-416 |
| - Downlink RLC logical channel info | | | | RCS-417 |
| - Number of RLC logical channels | | 1 | | RCS-418 |
| - Downlink transport channel type | | FACH | | RCS-419 |
| - DL DCH Transport channel identity | | Not Present | | RCS-420 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-421 |
| - Logical channel identity | | 3 | | RCS-422 |
| - Signalling RB information to setup | A2 | (AM DCCH for NAS_DT High priority) | Rel-6 | RCS-423 |
| - RB identity | | Not Present | | RCS-424 |
| - CHOICE RLC info type | | | | RCS-425 |
| - RLC info | | | | RCS-426 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-427 |
| - Transmission RLC discard | | | | RCS-428 |
| - SDU discard mode | | No discard | | RCS-429 |
| - MAX_DAT | | 15 | | RCS-430 |
| - Transmission window size | | 32 | | RCS-431 |
| - Timer_RST | | 500 | | RCS-432 |
| - Max_RST | | 1 | | RCS-433 |
| - Polling info | | | | RCS-434 |
| - Timer_poll_prohibit | | 200 | | RCS-435 |
| - Timer_poll | | 200 | | RCS-436 |
| - Poll_PDU | | Not present | | RCS-437 |
| - Poll_SDU | | 1 | | RCS-438 |
| - Last transmission PDU poll | | TRUE | | RCS-439 |
| - Last retransmission PDU poll | | TRUE | | RCS-440 |
| - Poll_Window | | 99 | | RCS-441 |
| - Timer_poll_periodic | | Not Present | | RCS-442 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-443 |
| - In-sequence delivery | | TRUE | | RCS-444 |
| - Receiving window size | | 32 | | RCS-445 |
| - Downlink RLC status info | | | | RCS-446 |
| - Timer_status_prohibit | | 200 | | RCS-447 |
| - Timer_EPC | | Not present | | RCS-448 |
| - Missing PDU indicator | | TRUE | | RCS-449 |
| - Timer_STATUS_periodic | | Not Present | | RCS-450 |
| - RB mapping info | | | | RCS-451 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-452 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-453 |
| - Number of RLC logical channels | | 1 | | RCS-454 |
| - Uplink transport channel type | | E-DCH | | RCS-455 |
| - Logical channel identity | | 3 | | RCS-456 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-457 |
| - DDI | | 3 | | RCS-458 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-459 |
| - RLC PDU size | | 144 bits | | RCS-460 |
| - Include in scheduling info | | FALSE | | RCS-461 |
| - MAC logical channel priority | | 3 | | RCS-462 |
| - Downlink RLC logical channel info | | | | RCS-463 |
| - Number of RLC logical channels | | 1 | | RCS-464 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|-----------|-------------------------------------|-------------|---------|---------|
| type identity identity identity identity | | HS-DSCH | | RCS-465 | |
| | | Not Present | | RCS-466 | |
| | | Not Present | | RCS-467 | |
| | | 1 | | RCS-468 | |
| | | 3 | | RCS-469 | |
| - Signalling RB information to setup | A3 | (AM DCCH for NAS_DT High priority) | Rel-7 | RCS-470 | |
| - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU Size - Length indicator size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option indicator - RLC logical channel mapping - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info channels type identity | A5, A6 | Not present | Rel-8 | RCS-471 | |
| | | AM RLC | | RCS-472 | |
| | | No discard | | RCS-473 | |
| | | 15 | | RCS-474 | |
| | | 32 | | RCS-475 | |
| | | 500 | | RCS-476 | |
| | | 1 | | RCS-477 | |
| | | 200 | | RCS-478 | |
| | | 200 | | RCS-479 | |
| | | Not Present | | RCS-480 | |
| | | 1 | | RCS-481 | |
| | | 200 | | RCS-482 | |
| | | 200 | | RCS-483 | |
| | | Not Present | | RCS-484 | |
| | | 1 | | RCS-485 | |
| | | TRUE | | RCS-486 | |
| | | TRUE | | RCS-487 | |
| | | 99 | | RCS-488 | |
| | | Not Present | | RCS-489 | |
| | | AM RLC | | RCS-490 | |
| | | Reference to clause 6 Parameter Set | | RCS-491 | |
| | | | | RCS-492 | |
| | | | 7 | | RCS-493 |
| | | | TRUE | | RCS-494 |
| | | | 32 | | RCS-495 |
| | | | | | RCS-496 |
| | | | 200 | | RCS-497 |
| | | | Not Present | | RCS-498 |
| | | | TRUE | | RCS-499 |
| | | | Not Present | | RCS-500 |
| | | | Not Present | | RCS-501 |
| | | | TRUE | | RCS-502 |
| | | | | RCS-503 | |
| | | 1 RBMuxOption | | RCS-504 | |
| | | Not Present | | RCS-505 | |
| | | 1 | | RCS-506 | |
| | | E-DCH | | RCS-507 | |
| | | 3 | | RCS-508 | |
| | | 1 | | RCS-509 | |
| | | Fixed size | Rel-8 | RCS-510 | |
| | | 2 | | RCS-511 | |
| | | 1 RLC PDU size | | RCS-512 | |
| | | 144 bits | | RCS-513 | |
| | | FALSE | | RCS-514 | |
| | | 3 | | RCS-515 | |
| | | | | RCS-516 | |
| | | 1 | | RCS-517 | |
| | | HS-DSCH | | RCS-518 | |
| | | Not Present | | RCS-519 | |
| | | Not Present | | RCS-520 | |

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------------|-----------|--|---------|---------|
| identity | | MAC-ehs | | RCS-521 |
| - CHOICE DL MAC header type | | 1 | | RCS-522 |
| Queue Id | | 3 | | RCS-523 |
| - Logical channel identity | | | | RCS-523 |
| - Signalling RB information to setup | A4 | (AM DCCH for NAS_DT High priority) | Rel-7 | RCS-524 |
| - RB identity | | Not present | | RCS-525 |
| - CHOICE RLC info type | | | | RCS-526 |
| - RLC info | | | | RCS-527 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-528 |
| - Transmission RLC discard | | | | RCS-529 |
| - SDU discard mode | | No discard | | RCS-530 |
| - MAX_DAT | | 15 | | RCS-531 |
| - Transmission window size | | 32 | | RCS-532 |
| - Timer_RST | | 500 | | RCS-533 |
| - Max_RST | | 1 | | RCS-534 |
| - Polling info | | | | RCS-535 |
| - Timer_poll_prohibit | | 200 | | RCS-536 |
| - Timer_poll | | 200 | | RCS-537 |
| - Poll_PDU | | Not Present | | RCS-538 |
| - Poll_SDU | | 1 | | RCS-539 |
| - Last transmission PDU poll | | TRUE | | RCS-540 |
| - Last retransmission PDU poll | | TRUE | | RCS-541 |
| - Poll_Window | | 99 | | RCS-542 |
| - Timer_poll_periodic | | Not Present | | RCS-543 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-544 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RCS-545 |
| Size | | | | RCS-546 |
| - Length indicator size | | 7 | | RCS-546 |
| - In-sequence delivery | | TRUE | | RCS-547 |
| - Receiving window size | | 32 | | RCS-548 |
| - Downlink RLC status info | | | | RCS-549 |
| - Timer_status_prohibit | | 200 | | RCS-550 |
| - Timer_EPC | | Not Present | | RCS-551 |
| - Missing PDU indicator | | TRUE | | RCS-552 |
| - Timer_STATUS_periodic | | Not Present | | RCS-553 |
| - Alternative E-bit interpretation | | Not Present | | RCS-554 |
| - Use special value of HE field | | Not Present | | RCS-555 |
| - RB mapping info | | | | RCS-556 |
| - Information for each multiplexing | | 1 RBMuxOption | | RCS-557 |
| option | | | | RCS-558 |
| - RLC logical channel mapping | | Not Present | | RCS-558 |
| indicator | | | | RCS-559 |
| - Number of RLC logical channels | | 1 | | RCS-559 |
| - Uplink transport channel type | | RACH | | RCS-560 |
| - UL Transport channel identity | | Not Present | | RCS-561 |
| - Logical channel identity | | 3 | | RCS-562 |
| - CHOICE RLC size list | | Explicit List | | RCS-563 |
| - RLC size index | | According to clause 6.10.2.4.4.1 (combinations on PRACH) | | RCS-564 |
| - MAC logical channel priority | | 3 | | RCS-565 |
| - Downlink RLC logical channel | | | | RCS-566 |
| info | | | | RCS-567 |
| - Number of RLC logical | | 1 | | RCS-567 |
| channels | | | | RCS-568 |
| - Downlink transport channel | | HS-DSCH | | RCS-568 |
| type | | | | RCS-569 |
| - DL DCH Transport channel | | Not Present | | RCS-569 |
| identity | | | | RCS-570 |
| - DL DSCH Transport channel | | Not Present | | RCS-570 |
| identity | | | | RCS-571 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS-571 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-572 |
| Queue Id | | | | RCS-573 |
| - Logical channel identity | | 3 | | RCS-573 |
| - Signalling RB information to setup | A1 | (AM DCCH for NAS_DT Low priority) | | RCS-574 |
| - RB identity | | Not Present | | RCS-575 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|---------|
| - CHOICE RLC info type | | | | RCS-576 |
| - RLC info | | | | RCS-577 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-578 |
| - Transmission RLC discard | | | | RCS-579 |
| - SDU discard mode | | No discard | | RCS-580 |
| - MAX_DAT | | 15 | | RCS-581 |
| - Transmission window size | | 32 | | RCS-582 |
| - Timer_RST | | 500 | | RCS-583 |
| - Max_RST | | 1 | | RCS-584 |
| - Polling info | | | | RCS-585 |
| - Timer_poll_prohibit | | 200 | | RCS-586 |
| - Timer_poll | | 200 | | RCS-587 |
| - Poll_PDU | | Not present | | RCS-588 |
| - Poll_SDU | | 1 | | RCS-589 |
| - Last transmission PDU poll | | TRUE | | RCS-590 |
| - Last retransmission PDU poll | | TRUE | | RCS-591 |
| - Poll_Window | | 99 | | RCS-592 |
| - Timer_poll_periodic | | Not Present | | RCS-593 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-594 |
| - DL RLC PDU size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCS-595 |
| - In-sequence delivery | | TRUE | | RCS-596 |
| - Receiving window size | | 32 | | RCS-597 |
| - Downlink RLC status info | | | | RCS-598 |
| - Timer_status_prohibit | | 200 | | RCS-599 |
| - Timer_EPC | | Not Present | | RCS-600 |
| - Missing PDU indicator | | TRUE | | RCS-601 |
| - Timer_STATUS_periodic | | Not Present | | RCS-602 |
| - RB mapping info | | | | RCS-603 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS-604 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-605 |
| - Number of RLC logical channels | | 1 | | RCS-606 |
| - Uplink transport channel type | | DCH | | RCS-607 |
| - UL Transport channel identity | | 5 | | RCS-608 |
| - Logical channel identity | | 4 | | RCS-609 |
| - CHOICE RLC size list | | Configured | | RCS-610 |
| - MAC logical channel priority | | 4 | | RCS-611 |
| - Downlink RLC logical channel info | | | | RCS-612 |
| - Number of RLC logical channels | | 1 | | RCS-613 |
| - Downlink transport channel type | | DCH | | RCS-614 |
| - DL DCH Transport channel identity | | 10 | | RCS-615 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-616 |
| - Logical channel identity | | 4 | | RCS-617 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-618 |
| - Number of RLC logical channels | | 1 | | RCS-619 |
| - Uplink transport channel type | | RACH | | RCS-620 |
| - UL Transport channel identity | | Not Present | | RCS-621 |
| - Logical channel identity | | 4 | | RCS-622 |
| - CHOICE RLC size list | | Explicit List | | RCS-623 |
| - RLC size index | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-624 |
| - MAC logical channel priority | | 4 | | RCS-625 |
| - Downlink RLC logical channel info | | | | RCS-626 |
| - Number of RLC logical channels | | 1 | | RCS-627 |
| - Downlink transport channel type | | FACH | | RCS-628 |
| - DL DCH Transport channel | | Not Present | | RCS-629 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|-----------------------------------|---------|---------|
| identity - DL DSCH Transport channel | | Not Present | | RCS-630 |
| identity - Logical channel identity | | 4 | | RCS-631 |
| - Signalling RB information to setup | A2 | (AM DCCH for NAS_DT Low priority) | Rel-6 | RCS-632 |
| - RB identity | | Not Present | | RCS-633 |
| - CHOICE RLC info type | | | | RCS-634 |
| - RLC info | | | | RCS-635 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-636 |
| - Transmission RLC discard | | | | RCS-637 |
| - SDU discard mode | | No discard | | RCS-638 |
| - MAX_DAT | | 15 | | RCS-639 |
| - Transmission window size | | 32 | | RCS-640 |
| - Timer_RST | | 500 | | RCS-641 |
| - Max_RST | | 1 | | RCS-642 |
| - Polling info | | | | RCS-643 |
| - Timer_poll_prohibit | | 200 | | RCS-644 |
| - Timer_poll | | 200 | | RCS-645 |
| - Poll_PDU | | Not present | | RCS-646 |
| - Poll_SDU | | 1 | | RCS-647 |
| - Last transmission PDU poll | | TRUE | | RCS-648 |
| - Last retransmission PDU poll | | TRUE | | RCS-649 |
| - Poll_Window | | 99 | | RCS-650 |
| - Timer_poll_periodic | | Not Present | | RCS-651 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-652 |
| - In-sequence delivery | | TRUE | | RCS-653 |
| - Receiving window size | | 32 | | RCS-654 |
| - Downlink RLC status info | | | | RCS-655 |
| - Timer_status_prohibit | | 200 | | RCS-656 |
| - Timer_EPC | | Not Present | | RCS-657 |
| - Missing PDU indicator | | TRUE | | RCS-658 |
| - Timer_STATUS_periodic | | Not Present | | RCS-659 |
| - RB mapping info | | | | RCS-660 |
| - Information for each multiplexing | | 1 RBMuxOption | | RCS-661 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RCS-662 |
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS-663 |
| - Uplink transport channel type | | E-DCH | | RCS-664 |
| - Logical channel identity | | 4 | | RCS-665 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-666 |
| - DDI | | 4 | | RCS-667 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-668 |
| - RLC PDU size | | 144 bits | | RCS-669 |
| - Include in scheduling info | | FALSE | | RCS-670 |
| - MAC logical channel priority | | 4 | | RCS-671 |
| - Downlink RLC logical channel | | | | RCS-672 |
| info | | | | |
| - Number of RLC logical | | 1 | | RCS-673 |
| channels | | | | |
| - Downlink transport channel | | HS-DSCH | | RCS-674 |
| type | | | | |
| - DL DCH Transport channel | | Not Present | | RCS-675 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RCS-676 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | 1 | | RCS-677 |
| identity | | | | |
| - Logical channel identity | | 4 | | RCS-678 |
| - Signalling RB information to setup | A3, A5 | (AM DCCH for NAS DT Low priority) | Rel-7 | RCS-679 |
| | , A6 | | Rel-8 | |
| - RB identity | | Not present | | RCS-680 |
| - CHOICE RLC info type | | | | RCS-681 |
| - RLC info | | | | RCS-682 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-683 |
| - Transmission RLC discard | | | | RCS-684 |
| - SDU discard mode | | No discard | | RCS-685 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|---------|
| - MAX_DAT | | 15 | | RCS-686 |
| - Transmission window size | | 32 | | RCS-687 |
| - Timer_RST | | 500 | | RCS-688 |
| - Max_RST | | 1 | | RCS-689 |
| - Polling info | | | | RCS-690 |
| - Timer_poll_prohibit | | 200 | | RCS-691 |
| - Timer_poll | | 200 | | RCS-692 |
| - Poll_PDU | | Not Present | | RCS-693 |
| - Poll_SDU | | 1 | | RCS-694 |
| - Last transmission PDU poll | | TRUE | | RCS-695 |
| - Last retransmission PDU poll | | TRUE | | RCS-696 |
| - Poll_Window | | 99 | | RCS-697 |
| - Timer_poll_periodic | | Not Present | | RCS-698 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-699 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RCS-700 |
| Size | | | | |
| - Length indicator size | | 7 | | RCS-701 |
| - In-sequence delivery | | TRUE | | RCS-702 |
| - Receiving window size | | 32 | | RCS-703 |
| - Downlink RLC status info | | | | RCS-704 |
| - Timer_status_prohibit | | 200 | | RCS-705 |
| - Timer_EPC | | Not Present | | RCS-706 |
| - Missing PDU indicator | | TRUE | | RCS-707 |
| - Timer_STATUS_periodic | | Not Present | | RCS-708 |
| - Alternative E-bit interpretation | | Not Present | | RCS-709 |
| - Use special value of HE field | | TRUE | | RCS-710 |
| - RB mapping info | | | | RCS-711 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-712 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-713 |
| - Number of RLC logical channels | | 1 | | RCS-714 |
| - Uplink transport channel type | | E-DCH | | RCS-715 |
| - Logical channel identity | | 4 | | RCS-716 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-717 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RCS-718 |
| - DDI | | 2 | | RCS-719 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS-720 |
| - RLC PDU size | | 144 bits | | RCS-721 |
| - Include in scheduling info | | FALSE | | RCS-722 |
| - MAC logical channel priority | | 4 | | RCS-723 |
| - Downlink RLC logical channel info | | | | RCS-724 |
| - Number of RLC logical channels | | 1 | | RCS-725 |
| - Downlink transport channel type | | HS-DSCH | | RCS-726 |
| - DL DCH Transport channel identity | | Not Present | | RCS-727 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-728 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS-729 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-730 |
| Queue Id | | | | |
| - Logical channel identity | | 4 | | RCS-731 |
| - Signalling RB information to setup | A4 | (AM DCCH for NAS DT Low priority) | Rel-7 | RCS-732 |
| - RB identity | | Not present | | RCS-733 |
| - CHOICE RLC info type | | | | RCS-734 |
| - RLC info | | | | RCS-735 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS-736 |
| - Transmission RLC discard | | | | RCS-737 |
| - SDU discard mode | | No discard | | RCS-738 |
| - MAX_DAT | | 15 | | RCS-739 |
| - Transmission window size | | 32 | | RCS-740 |
| - Timer_RST | | 500 | | RCS-741 |
| - Max_RST | | 1 | | RCS-742 |
| - Polling info | | | | RCS-743 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|---------|
| - Timer_poll_prohibit | | 200 | | RCS-744 |
| - Timer_poll | | 200 | | RCS-745 |
| - Poll_PDU | | Not Present | | RCS-746 |
| - Poll_SDU | | 1 | | RCS-747 |
| - Last transmission PDU poll | | TRUE | | RCS-748 |
| - Last retransmission PDU poll | | TRUE | | RCS-749 |
| - Poll_Window | | 99 | | RCS-750 |
| - Timer_poll_periodic | | Not Present | | RCS-751 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS-752 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RCS-753 |
| Size | | | | |
| - Length indicator size | | 7 | | RCS-754 |
| - In-sequence delivery | | TRUE | | RCS-755 |
| - Receiving window size | | 32 | | RCS-756 |
| - Downlink RLC status info | | | | RCS-757 |
| - Timer_status_prohibit | | 200 | | RCS-758 |
| - Timer_EPC | | Not Present | | RCS-759 |
| - Missing PDU indicator | | TRUE | | RCS-760 |
| - Timer_STATUS_periodic | | Not Present | | RCS-761 |
| - Alternative E-bit interpretation | | Not Present | | RCS-762 |
| - Use special value of HE field | | Not Present | | RCS-763 |
| - RB mapping info | | | | RCS-764 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS-765 |
| - RLC logical channel mapping indicator | | Not Present | | RCS-766 |
| - Number of RLC logical channels | | 1 | | RCS-767 |
| - Uplink transport channel type | | RACH | | RCS-768 |
| - UL Transport channel identity | | Not Present | | RCS-769 |
| - Logical channel identity | | 4 | | RCS-770 |
| - CHOICE RLC size list | | Explicit List | | RCS-771 |
| - RLC size index | | According to clause 6.10.2.4.4.1 (Combinations on PRACH) | | RCS-772 |
| - MAC logical channel priority | | 4 | | RCS-773 |
| - Downlink RLC logical channel info | | | | RCS-774 |
| - Number of RLC logical channels | | 1 | | RCS-775 |
| - Downlink transport channel type | | HS-DSCH | | RCS-776 |
| - DL DCH Transport channel identity | | Not Present | | RCS-777 |
| - DL DSCH Transport channel identity | | Not Present | | RCS-778 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS-779 |
| - DL HS-DSCH MAC-ehs | | 1 | | RCS-780 |
| Queue Id | | | | |
| - Logical channel identity | | 4 | | RCS-781 |
| UL Transport channel information for all transport channels | A1 | | | RCS-782 |
| - PRACH TFCS | | Not Present | | RCS-783 |
| - CHOICE Mode | | FDD | | RCS-784 |
| - TFC subset | | Nor Present | | RCS-785 |
| - UL DCH TFCS | | | | RCS-786 |
| - CHOICE TFCI signalling | | Normal | | RCS-787 |
| - TFCI Field 1 information | | | | RCS-788 |
| - CHOICE TFCS representation | | Complete | | RCS-789 |
| - TFCS complete reconfigure | | | | RCS-790 |
| - CHOICE CTFC Size | | 2bit CTFC | | RCS-791 |
| - CTFC information | | This IE is repeated for TFC numbers according to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-792 |
| - CTFC | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-793 |
| - Power offset information | | | | RCS-794 |
| - CHOICE Gain Factors | | Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | RCS-795 |

| Information Element | Condition | Value/remark | Version | Index | |
|---|-----------|---|---------|--------------------------|---------|
| - Gain factor β_c | | 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors) | | RCS-796 | |
| - Gain factor β_d | | 15 (Not Present if the above is set to Computed Gain Factors) | | RCS-797 | |
| - Reference TFC ID | | 0 | | RCS-798 | |
| - CHOICE mode | | FDD | | RCS-799 | |
| - Power offset Pp-m | | Not Present | | RCS-800 | |
| UL Transport channel information for all transport channels | A2 | Not Present | Rel-6 | RCS-801 | |
| UL Transport channel information for all transport channels | A3, A4 | Not Present | Rel-7 | RCS-802 | |
| | A5, A6 | | Rel-8 | RCS-803 | |
| Added or Reconfigured UL TrCH information | A1 | DCH 5 Dedicated transport channels According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) (This IE is repeated for TFI number) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) All According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-804 | |
| - Uplink transport channel type | | | | RCS-805 | |
| - UL Transport channel identity | | | | RCS-806 | |
| - TFS | | | | RCS-807 | |
| - CHOICE Transport channel type | | | | RCS-808 | |
| - Dynamic Transport format information | | | | RCS-809 | |
| - RLC size | | | | RCS-810 | |
| - Number of TBs and TTI lists | | | | RCS-811 | |
| - Transmission Time Interval | | | | RCS-812 | |
| - Number of Transport blocks | | | | RCS-813 | |
| - CHOICE Logical channel list | | | | RCS-814 | |
| - Semi-static Transport Format information | | | | RCS-815 | |
| - Transmission time interval | | | | RCS-816 | |
| - Type of channel coding | | | | RCS-817 | |
| - Coding Rate | | RCS-818 | | | |
| - Rate matching attribute | | RCS-819 | | | |
| - CRC size | | RCS-820 | | | |
| Added or Reconfigured UL TrCH information | A2 | 1 E-DCH added with one DCCH MAC-d flow | Rel-6 | RCS-821 | |
| - Uplink transport channel type | A3 | E-DCH E-DCH set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | Rel-7 | RCS-822 | |
| - CHOICE UL parameters | | | | RCS-823 | |
| - E-DCH Transmission Time Interval | | | | RCS-824 | |
| Interval | | | | RCS-825 | |
| - HARQ info for E-DCH | | | | RCS-826 | |
| - HARQ RV Configuration | | | | RCS-827 | |
| - Added or reconfigured E-DCH MAC-d flow | | | | rvtable (for DCCH) | RCS-828 |
| - E-DCH MAC-d flow identity | | | | 1 | RCS-829 |
| - E-DCH MAC-d flow power offset | | | | 0 | RCS-830 |
| - E-DCH MAC-d flow maximum number of retransmissions | | | | 7 | RCS-831 |
| - E-DCH MAC-d flow multiplexing list | | | | Not Present | RCS-832 |
| - CHOICE transmission grant type | | | | Non-scheduled grant info | RCS-833 |
| - Max MAC-e PDU contents size | | | | 162 bits | RCS-834 |
| - 2 ms non-scheduled | | | | Not Present | RCS-835 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|---------|
| transmission grant HARQ process allocation | | | | |
| Added or Reconfigured UL TrCH information | A4 | Not Present | Rel-7 | RCS-836 |
| Added or Reconfigured UL TrCH information | A5, A6 | 1 E-DCH added with one DCCH MAC-d flow | Rel-8 | RCS-837 |
| - Uplink transport channel type | | E-DCH | | RCS-838 |
| - CHOICE UL parameters | | E-DCH | | RCS-839 |
| - UL MAC header type | | MAC-i/is | | RCS-840 |
| - E-DCH Transmission Time Interval | | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI | | RCS-841 |
| - HARQ info for E-DCH | | | | RCS-842 |
| - HARQ RV Configuration | | rvtable | | RCS-843 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RCS-844 |
| - E-DCH MAC-d flow identity | | 1 | | RCS-845 |
| - E-DCH MAC-d flow power | | 0 | | RCS-846 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RCS-847 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RCS-848 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RCS-849 |
| - Max MAC-e PDU contents size | | 168 bits | | RCS-850 |
| - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RCS-851 |
| DL Transport channel information common for all transport channel | A1 | | | RCS-852 |
| - SCCPCH TFCS | | Not Present | | RCS-853 |
| - CHOICE mode | | FDD | | RCS-854 |
| - CHOICE DL parameters | | Same as UL | | RCS-855 |
| DL Transport channel information common for all transport channel | A2 | Not Present | Rel-6 | RCS-856 |
| DL Transport channel information common for all transport channel | A3, A4 | Not Present | Rel-7 | RCS-857 |
| | A5, A6 | | Rel-8 | RCS-858 |
| Added or Reconfigured DL TrCH information | A1 | | | RCS-859 |
| - Downlink transport channel type | | DCH | | RCS-860 |
| - DL Transport channel identity | | 10 | | RCS-861 |
| - CHOICE DL parameters | | Same as UL | | RCS-862 |
| - Uplink transport channel type | | DCH | | RCS-863 |
| - UL TrCH Identity | | 5 | | RCS-864 |
| - DCH quality target | | | | RCS-865 |
| - BLER Quality value | | -20 (-2.0) | | RCS-866 |
| Added or Reconfigured DL TrCH information | A2 | 1 TrCH (HS-DSCH for DCCH) | Rel-6 | RCS-867 |
| - Downlink transport channel type | | HS-DSCH | | RCS-868 |
| - DL Transport channel identity | | Not Present | | RCS-869 |
| - CHOICE DL parameters | | HS-DSCH | | RCS-870 |
| - HARQ Info | | | | RCS-871 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 Parameter Set | | RCS-872 |
| - CHOICE Memory | | Implicit | | RCS-873 |
| Partitioning | | | | |
| - Added or reconfigured MAC-d flow | | | | RCS-874 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RCS-875 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RCS-876 |
| - MAC-d Flow Identity | | 1 | | RCS-877 |
| - T1 | | 50 | | RCS-878 |
| - MAC-hs window size | | 16 | | RCS-879 |
| - MAC-d PDU size Info | | | | RCS-880 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|---------|
| - MAC-d PDU size | | 148 | | RCS-881 |
| - MAC-d PDU size index | | 0 | | RCS-882 |
| - MAC-hs queue to delete list | | Not present | | RCS-883 |
| - DCH quality target | | Not present | | RCS-884 |
| Added or Reconfigured DL TrCH information | A3 | 1 TrCH (HS-DSCH for DCCH) | Rel-7 | RCS-885 |
| | A5 | | Rel-8 | RCS-886 |
| | A4 | | Rel-7 | |
| | A6 | | Rel-8 | |
| - Downlink transport channel type | | HS-DSCH | | RCS-887 |
| - DL Transport channel identity | | Not Present | | RCS-888 |
| - CHOICE DL parameters | | HS-DSCH | | RCS-889 |
| - HARQ Info | | | | RCS-890 |
| - Number of Processes | | Reference to clause 6.10.2.4.5 Parameter Set | | RCS-891 |
| - CHOICE <i>Memory</i> | | Implicit | | RCS-892 |
| <i>Partitioning</i> | | | | |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RCS-893 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RCS-894 |
| - MAC-ehs queue to add or reconfigure list | | (1 queue) | | RCS-895 |
| - MAC-ehs queue Id | | 1 | | RCS-896 |
| - T1 | | 50 | | RCS-897 |
| - MAC-ehs window size | | 16 | | RCS-898 |
| - MAC-ehs queue to delete list | | Not present | | RCS-899 |
| - DCH quality target | | Not present | | RCS-900 |
| Frequency info | | Not Present | | RCS-901 |
| DTX-DRX timing information | | Not present | Rel-7 | RCS-902 |
| DTX-DRX Information | | Not present | Rel-7 | RCS-903 |
| HS-SCCH less Information | | Not present | Rel-7 | RCS-904 |
| Maximum allowed UL TX power | | Not Present | | RCS-905 |
| Uplink DPCH info | A1 | | | RCS-907 |
| - Uplink DPCH power control info | | | | RCS-908 |
| - DPCCH power offset | | -40 (-80dB) | | RCS-909 |
| - PC Preamble | | 1 frame | | RCS-910 |
| - SRB delay | | 7 frames | | RCS-911 |
| - Power Control Algorithm | | Algorithm1 | | RCS-912 |
| - TPC step size | | 0 (1dB) | | RCS-913 |
| - Scrambling code type | | Long | | RCS-914 |
| - Scrambling code number | | 0 (0 to 16777215) | | RCS-915 |
| - Number of DPDCH | | Not Present(1) | | RCS-916 |
| - Spreading factor | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-917 |
| - TFCI existence | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-918 |
| - Number of FBI bit | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-919 |
| - Puncturing Limit | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-920 |
| - Number of TPC bits | | Not present | Rel-7 | RCS-921 |
| Uplink DPCH info | A2 | | Rel-6 | RCS-922 |
| | A3 | | Rel-7 | RCS-923 |
| | A5 | | Rel-8 | RCS-924 |
| - Uplink DPCH power control info | | | | RCS-925 |
| - DPCCH power offset | | -40 (-80dB) | | RCS-926 |
| - PC Preamble | | 1 frame | | RCS-927 |
| - SRB delay | | 7 frames | | RCS-928 |
| - Power Control Algorithm | | Algorithm1 | | RCS-929 |
| - TPC step size | | 0 (1dB) | | RCS-930 |
| - Δ_{ACK} | | 3 | | RCS-931 |
| - Δ_{NACK} | | 3 | | RCS-932 |
| - Ack-Nack repetition factor | | 1 | | RCS-933 |
| - HARQ_preamble_mode | | 0 | | RCS-934 |
| - Scrambling code type | | Long | | RCS-935 |
| - Scrambling code number | | 0 (0 to 16777215) | | RCS-936 |
| - Number of DPDCH | | 0 | | RCS-937 |
| - spreading factor | | Not Present | | RCS-938 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|-------------------------------|
| - TFCI existence - Number of FBI bit - Puncturing Limit | | FALSE Not Present Not Present | | RCS-939 RCS-940 RCS-941 |
| Uplink DPCH info | A4 | Not Present | Rel-7 | RCS-942 |
| | A6 | | Rel-8 | |
| E-DCH Info | A1 | Not Present | Rel-6 | RCS-943 |
| E-DCH info | A2 | | Rel-6 | RCS-944 |
| | A3 | | Rel-7 | RCS-945 |
| | A5 | | Rel-8 | RCS-946 |
| - MAC-es/e reset indicator | | TRUE | | RCS-947 |
| - E-DPCCH info | | | | RCS-948 |
| - E-DPCCH/DPCCH power offset | | 0 | | RCS-949 |
| - Happy bit delay condition | | 100 ms | | RCS-950 |
| - E-TFC Boost Info | | Not present | Rel-7 | RCS-951 |
| - E-DPDCH power interpolation | | Not present | Rel-7 | RCS-952 |
| - E-DPDCH info | | | | RCS-953 |
| - E-TFCI table index | | 0 | | RCS-954 |
| - E-DCH minimum set E-TFCI | | 9 | | RCS-955 |
| - Reference E-TFCIs | | 2 E-TFCIs | | RCS-956 |
| - Reference E-TFCI | | 11 | | RCS-957 |
| - Reference E-TFCI PO | | 4 | | RCS-958 |
| - Reference E-TFCI | | 83 | | RCS-959 |
| - Reference E-TFCI PO | | 16 | | RCS-960 |
| - Maximum channelisation codes | | 2sf4 | | RCS-961 |
| - PLnon-max | | 0.84 | | RCS-962 |
| - Scheduling Information Configuration | | | | RCS-963 |
| - Periodicity for Scheduling Info – no grant | | Not present | | RCS-964 |
| - Periodicity for Scheduling Info – grant | | Not present | | RCS-965 |
| - Power Offset for Scheduling Info | | 0 | | RCS-966 |
| - 3-Index-Step Threshold | | Not present | | RCS-967 |
| - 2-Index-Step Threshold | | Not present | | RCS-968 |
| - Scheduled Transmission configuration | | | | RCS-969 |
| - 2ms scheduled transmission grant HARQ process allocation | | Not present | | RCS-970 |
| - Serving Grant | | Not present | | RCS-971 |
| - UL 16QAM settings | | Not present | Rel-7 | RCS-972 |
| E-DCH info | A4 | Not Present | Rel-7 | RCS-973 |
| | A6 | | Rel-8 | |
| Downlink HS-PDSCH Information | A1 | Not Present | Rel-6 | RCS-974 |
| Downlink HS-PDSCH Information | A2 | | Rel-6 | RCS-975 |
| | A5, A6 | | Rel-8 | RCS-976 |
| - HS-SCCH Info | A3 | | Rel-7 | RCS-977 |
| - CHOICE mode | | FDD | | RCS-978 |
| - DL Scrambling Code | | Not present | | RCS-979 |
| - HS-SCCH Channelisation Code Information | | | | RCS-980 |
| - HS-SCCH Channelisation Code | | 7 | | RCS-981 |
| - Measurement Feedback Info | | | | RCS-982 |
| - CHOICE mode | | FDD | | RCS-983 |
| - POhsdsch | | 6 dB | | RCS-984 |
| - CQI Feedback cycle, k | | 4 ms | | RCS-985 |
| - CQI repetition factor | | 1 | | RCS-986 |
| - Δ_{CQI} | | 5 (corresponds to 0dB in relative power offset) | | RCS-987 |
| - CHOICE mode | | FDD (no data) | | RCS-988 |
| - Downlink 64QAM configured | | Not present | Rel-7 | RCS-989 |
| - HS-DSCH TB size table | | Not present | Rel-7 | RCS-990 |
| Downlink HS-PDSCH Information | A4 | Not present | Rel-7 | RCS-991 |
| Downlink information common for all radio links | A1 | | | RCS-992 |
| - Downlink DPCH info common for | | | | RCS-993 |
| | | | | RCS-994 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|---|
| all RL - Timing Indication - CFN-targetSFN frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - Power offset $P_{\text{Pilot-DPCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value | | Initialize Not Present FDD 0 (single) 0 Not Present According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Not Present None Not Present Arbitrary set to value 0..306688 by step of 512 | | RCS-995 RCS-996 RCS-997 RCS-998 RCS-999 RCS-1000 RCS-1001 RCS-1002 RCS-1003 RCS-1004 RCS-1005 RCS-1006 RCS-1007 RCS-1008 RCS-1009 |
| Downlink information common for all radio links | A2 | | Rel-6 | RCS-1010 |
| | A3 | | Rel-7 | RCS-1011 |
| | A5 | | Rel-8 | RCS-1012 |
| - Downlink F-DPCH info common for all RL - Timing Indication - Downlink F-DPCH power control information - DPC mode - TPC command error rate target - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator | | Initialise 0 (single) 0.04 FDD Not Present None Arbitrary set to value 0..306688 by step of 512 TRUE | | RCS-1013 RCS-1014 RCS-1015 RCS-1016 RCS-1017 RCS-1018 RCS-1019 RCS-1020 RCS-1021 RCS-1022 |
| Downlink information common for all radio links | A4 | Not Present | Rel-7 | RCS-1023 |
| | A6 | | Rel-8 | |
| Downlink information for each radio links list - Downlink information for each radio links - CHOICE mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code | A1 | FDD Reference to clause 6.1 "Default settings (FDD)" Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value: Default DPCH Offset Value mod 38400 Not Present | | RCS-1024 RCS-1025 RCS-1026 RCS-1027 RCS-1028 RCS-1029 RCS-1030 RCS-1031 RCS-1032 RCS-1033 RCS-1034 RCS-1035 RCS-1036 RCS-1037 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|-----------|--|---|--|----------------------|
| <ul style="list-style-type: none"> - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH | | 1 According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCS-1038 RCS-1039 | |
| | | 0 | | RCS-1040 | |
| | | Not Present | | RCS-1041 | |
| | | 0 | | RCS-1042 | |
| | | Not Present | | RCS-1043 | |
| | | Not Present | | RCS-1044 | |
| | | Not Present | | Rel-6 RCS-1045 | |
| | | Not Present | | Rel-6 RCS-1046 | |
| | | Not Present | | Rel-6 RCS-1047 | |
| | | Not Present | | R99 and Rel-4 only RCS-1048 | |
| Downlink information for each radio link list | A2 | | Rel-6 | RCS-1049 | |
| | A3 | | Rel-7 | RCS-1050 | |
| | A5 | | Rel-8 | RCS-1051 | |
| <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence - CHOICE E-RGCH Information - E-RGCH Information - Signature Sequence - RG combination index | | FDD | | RCS-1052 RCS-1053 RCS-1054 RCS-1055 RCS-1056 | |
| | | | Ref. to the Default setting in clause 6.1 (FDD) | | RCS-1055 RCS-1056 |
| | | | TRUE | | RCS-1057 |
| | | | Not Present | | RCS-1058 RCS-1059 |
| | | | Primary CPICH may be used | | RCS-1060 |
| | | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RCS-1061 |
| | | | Not Present | Rel-7 | RCS-1062 |
| | | | Not Present | | RCS-1063 |
| | | | Not Present | | RCS-1064 |
| | | | 12 | | RCS-1065 |
| | | | 0 | | RCS-1066 |
| | | | | | RCS-1067 |
| | | | 10 | | RCS-1068 |
| | | | | | RCS-1069 |
| | | | 4 | | RCS-1070 |
| | | | 1 | | RCS-1071 RCS-1072 |
| | | | 0 | | RCS-1073 RCS-1074 |
| | | 0 | | RCS-1075 RCS-1076 | |
| Downlink information for each radio link list | A4 | Not Present | Rel-7 | RCS-1077 | |
| | A6 | | Rel-8 | | |

| Condition | Explanation | Version |
|-----------|--|---------|
| A1 | This IE is needed for "Stand-alone SRBs mapped on DCH/DCH" | |
| A2 | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH " | Rel-6 |
| A3 | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH using MAC-ehs" | Rel-7 |
| A4 | This IE is needed for "Stand-alone SRBs mapped on RACH and HS-DSCH using MAC-ehs" for HS-DSCH reception in CELL_FACH | Rel-7 |
| A5 | This IE is needed for "Stand-alone SRBs mapped on E-DCH using MAC-i/is and HS-DSCH using MAC-ehs" | Rel-8 |

| | | |
|---|---|-------|
| A6 | This IE is needed for SRB mapped onto common E-DCH (MAC-i/is) and HS-DSCH (MAC-ehs) in Enhanced CELL_FACH | |
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8 |
| NOTE 1: If not specified, then A1 will be the default condition | | |
| NOTE 2: E-UTRA capability is requested on the first RRC connection setup message during test case execution | | |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------|---|---------|----------|
| Message Type | | | | RCSU-001 |
| Initial UE identity | | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCSU-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RCSU-003 |
| Activation time | | Not Present (Now) | | RCSU-004 |
| New U-RNTI | | | | RCSU-005 |
| - SRNC identity | | 0000 0000 0001B | | RCSU-006 |
| - S-RNTI | | 0000 0000 0000 0000 0001B | | RCSU-007 |
| New C-RNTI | | 0000 0000 0000 0001B | | RCSU-008 |
| New H-RNTI | | Not present | Rel-6 | RCSU-009 |
| New Primary E-RNTI | | Not present | Rel-6 | RCSU-010 |
| New Secondary E-RNTI | | Not present | Rel-6 | RCSU-011 |
| RRC state indicator | | CELL_FACH | | RCSU-012 |
| UTRAN DRX cycle length coefficient | | 9 | | RCSU-013 |
| Capability update requirement | | | | RCSU-014 |
| - UE radio access FDD capability update requirement | | TRUE | | RCSU-015 |
| - UE radio access TDD capability update requirement | | FALSE | | RCSU-016 |
| - UE radio access 3.84 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCSU-017 |
| - UE radio access 1.28 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCSU-018 |
| - System specific capability update requirement list | | GSM | | RCSU-019 |
| - System specific capability update requirement list | UTRAN to E-UTRA | GSM, EUTRA | Rel-8 | |
| CHOICE <i>specification mode</i> | | Complete specification | Rel-5 | RCSU-020 |
| - Complete specification | | | Rel-5 | RCSU-021 |
| - Signalling RB information to setup | | (UM DCCH for RRC) | | RCSU-022 |
| - RB identity | | Not present | | RCSU-023 |
| - CHOICE RLC info type | | RLC info | | RCSU-024 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCSU-025 |
| - Transmission RLC discard | | timerBasedNoExplicit : dt50 | | RCSU-026 |
| - SDU discard mode | | Not present | | RCSU-027 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCSU-028 |
| - DL UM RLC LI size | | 7 bit | Rel-6 | RCSU-029 |
| - One sided RLC re-establishment | | FALSE | Rel-6 | RCSU-030 |
| - RB mapping info | | | | RCSU-031 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCSU-032 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-033 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-034 |
| - Uplink transport channel type | | DCH | | RCSU-035 |
| - UL Transport channel identity | | 5 | | RCSU-036 |
| - Logical channel identity | | 1 | | RCSU-037 |
| - CHOICE RLC size list | | Configured | | RCSU-038 |
| - MAC logical channel priority | | 1 | | RCSU-039 |
| - Downlink RLC logical channel info | | | | RCSU-040 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-041 |
| - Downlink transport channel type | | DCH | | RCSU-042 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|----------|
| - DL DCH Transport channel identity | | 10 | | RCSU-043 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-044 |
| - Logical channel identity | | 1 | | RCSU-045 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-046 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-047 |
| - Uplink transport channel type | | RACH | | RCSU-048 |
| - UL Transport channel identity | | Not Present | | RCSU-049 |
| - Logical channel identity | | 1 | | RCSU-050 |
| - CHOICE RLC size list | | Explicit list | | RCSU-051 |
| - RLC size index | | According to clause 6.10.2.4.4.1 | | RCSU-052 |
| - MAC logical channel priority | | 1 | | RCSU-053 |
| - Downlink RLC logical channel info | | | | RCSU-054 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-055 |
| - Downlink transport channel type | | FACH | | RCSU-056 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-057 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-058 |
| - Logical channel identity | | 1 | | RCSU-059 |
| - Signalling RB information to setup | | (AM DCCH for RRC) | | RCSU-060 |
| - RB identity | | Not Present | | RCSU-061 |
| - CHOICE RLC info type | | RLC info | | RCSU-062 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-063 |
| - Transmission RLC discard | | | | RCSU-064 |
| - SDU discard mode | | No Discard | | RCSU-065 |
| - MAX_DAT | | 15 | | RCSU-066 |
| - Transmission window size | | 32 | | RCSU-067 |
| - Timer_RST | | 500 | | RCSU-068 |
| - Max_RST | | 1 | | RCSU-069 |
| - Polling info | | | | RCSU-070 |
| - Timer_poll_prohibit | | 200 | | RCSU-071 |
| - Timer_poll | | 200 | | RCSU-072 |
| - Poll_PDU | | Not Present | | RCSU-073 |
| - Poll_SDU | | 1 | | RCSU-074 |
| - Last transmission PDU poll | | TRUE | | RCSU-075 |
| - Last retransmission PDU poll | | TRUE | | RCSU-076 |
| - Poll_Windows | | 99 | | RCSU-077 |
| - Timer_poll_periodic | | Not Present | | RCSU-078 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-079 |
| - DL RLC PDU size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCSU-080 |
| - In-sequence delivery | | TRUE | | RCSU-081 |
| - Receiving window size | | 32 | | RCSU-082 |
| - Downlink RLC status info | | | | RCSU-083 |
| - Timer_status_prohibit | | 200 | | RCSU-084 |
| - Timer_EPC | | Not Present | | RCSU-085 |
| - Missing PDU indicator | | TRUE | | RCSU-086 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-087 |
| - RB mapping info | | | | RCSU-088 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCSU-089 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-090 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-091 |
| - Uplink transport channel type | | DCH | | RCSU-092 |
| - UL Transport channel identity | | 5 | | RCSU-093 |
| - Logical channel identity | | 2 | | RCSU-094 |
| - CHOICE RLC size list | | Configured | | RCSU-095 |
| - MAC logical channel priority | | 2 | | RCSU-096 |
| - Downlink RLC logical channel info | | | | RCSU-097 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|----------|
| - Number of downlink RLC logical channels | | 1 | | RCSU-098 |
| - Downlink transport channel type | | DCH | | RCSU-099 |
| - DL DCH Transport channel identity | | 10 | | RCSU-100 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-101 |
| - Logical channel identity | | 2 | | RCSU-102 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-103 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-104 |
| - Uplink transport channel type | | RACH | | RCSU-105 |
| - UL Transport channel identity | | Not Present | | RCSU-106 |
| - Logical channel identity | | 2 | | RCSU-107 |
| - CHOICE RLC size list | | Explicit list | | RCSU-108 |
| - RLC size index | | According to clause 6.10.2.4.4.1 | | RCSU-109 |
| - MAC logical channel priority | | 2 | | RCSU-110 |
| - Downlink RLC logical channel info | | | | RCSU-111 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-112 |
| - Downlink transport channel type | | FACH | | RCSU-113 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-114 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-115 |
| - Logical channel identity | | 2 | | RCSU-116 |
| Signalling RB information to setup | | (AM DCCH for NAS_DT High priority) | | RCSU-117 |
| - RB identity | | Not present | | RCSU-118 |
| - CHOICE RLC info type | | RLC info | | RCSU-119 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-120 |
| - Transmission RLC discard | | | | RCSU-121 |
| - SDU discard mode | | No Discard | | RCSU-122 |
| - MAX_DAT | | 15 | | RCSU-123 |
| - Transmission window size | | 32 | | RCSU-124 |
| - Timer_RST | | 500 | | RCSU-125 |
| - Max_RST | | 1 | | RCSU-126 |
| - Polling info | | | | RCSU-127 |
| - Timer_poll_prohibit | | 200 | | RCSU-128 |
| - Timer_poll | | 200 | | RCSU-129 |
| - Poll_PDU | | Not Present | | RCSU-130 |
| - Poll_SDU | | 1 | | RCSU-131 |
| - Last transmission PDU poll | | TRUE | | RCSU-132 |
| - Last retransmission PDU poll | | TRUE | | RCSU-133 |
| - Poll_Windows | | 99 | | RCSU-134 |
| - Timer_poll_periodic | | Not Present | | RCSU-135 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-136 |
| - DL RLC PDU size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCSU-137 |
| - In-sequence delivery | | TRUE | | RCSU-138 |
| - Receiving window size | | 32 | | RCSU-139 |
| - Downlink RLC status info | | | | RCSU-140 |
| - Timer_status_prohibit | | 200 | | RCSU-141 |
| - Timer_EPC | | Not Present | | RCSU-142 |
| - Missing PDU indicator | | TRUE | | RCSU-143 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-144 |
| - RB mapping info | | | | RCSU-145 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCSU-146 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-147 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-148 |
| - Uplink transport channel type | | DCH | | RCSU-149 |
| - UL Transport channel identity | | 5 | | RCSU-150 |
| - Logical channel identity | | 3 | | RCSU-151 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - CHOICE RLC size list | | Configured | | RCSU-152 |
| - MAC logical channel priority | | 3 | | RCSU-153 |
| - Downlink RLC logical channel info | | | | RCSU-154 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-155 |
| - Downlink transport channel type | | DCH | | RCSU-156 |
| - DL DCH Transport channel | | 10 | | RCSU-157 |
| - DL DSCH Transport channel | | Not Present | | RCSU-158 |
| - Logical channel identity | | 3 | | RCSU-159 |
| - RLC logical channel mapping | | Not Present | | RCSU-160 |
| - Number of uplink RLC logical channels | | 1 | | RCSU-161 |
| - Uplink transport channel type | | RACH | | RCSU-162 |
| - UL DCH Transport channel | | Not Present | | RCSU-163 |
| - Logical channel identity | | 3 | | RCSU-164 |
| - CHOICE RLC size list | | Explicit list | | RCSU-165 |
| - RLC size index | | According to clause 6.10.2.4.4.1 | | RCSU-166 |
| - MAC logical channel priority | | 3 | | RCSU-167 |
| - Downlink RLC logical channel info | | | | RCSU-168 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-169 |
| - Downlink transport channel type | | FACH | | RCSU-170 |
| - DL DCH Transport channel | | Not Present | | RCSU-171 |
| - DL DSCH Transport channel | | Not Present | | RCSU-172 |
| - Logical channel identity | | 3 | | RCSU-173 |
| - Signalling RB information to setup | | (AM DCCH for NAS_DT Low priority) | | RCSU-174 |
| - RB identity | | Not Present | | RCSU-175 |
| - CHOICE RLC info type | | RLC info | | RCSU-176 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-177 |
| - Transmission RLC discard | | | | RCSU-178 |
| - SDU discard mode | | No Discard | | RCSU-179 |
| - MAX_DAT | | 15 | | RCSU-180 |
| - Transmission window size | | 32 | | RCSU-181 |
| - Timer_RST | | 500 | | RCSU-182 |
| - Max_RST | | 1 | | RCSU-183 |
| - Polling info | | | | RCSU-184 |
| - Timer_poll_prohibit | | 200 | | RCSU-185 |
| - Timer_poll | | 200 | | RCSU-186 |
| - Poll_PDU | | Not Present | | RCSU-187 |
| - Poll_SDU | | 1 | | RCSU-188 |
| - Last transmission PDU poll | | TRUE | | RCSU-189 |
| - Last retransmission PDU poll | | TRUE | | RCSU-190 |
| - Poll_Windows | | 99 | | RCSU-191 |
| - Timer_poll_periodic | | Not Present | | RCSU-192 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-193 |
| - DL RLC PDU size | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6 | RCSU-194 |
| - In-sequence delivery | | TRUE | | RCSU-195 |
| - Receiving window size | | 32 | | RCSU-196 |
| - Downlink RLC status info | | | | RCSU-197 |
| - Timer_status_prohibit | | 200 | | RCSU-198 |
| - Timer_EPC | | Not Present | | RCSU-199 |
| - Missing PDU indicator | | TRUE | | RCSU-200 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-201 |
| - RB mapping info | | | | RCSU-202 |
| - Information for each multiplexing | | 2 RBMuxOptions | | RCSU-203 |
| - RLC logical channel mapping | | Not Present | | RCSU-204 |
| - Number of uplink RLC logical | | 1 | | RCSU-205 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|----------|
| channels | | | | |
| - Uplink transport channel type | | DCH | | RCSU-206 |
| - UL Transport channel identity | | 5 | | RCSU-207 |
| - Logical channel identity | | 4 | | RCSU-208 |
| - CHOICE RLC size list | | Configured | | RCSU-209 |
| - MAC logical channel priority | | 4 | | RCSU-210 |
| - Downlink RLC logical channel info | | | | RCSU-211 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-212 |
| channels | | | | |
| - Downlink transport channel type | | DCH | | RCSU-213 |
| - DL DCH Transport channel identity | | 10 | | RCSU-214 |
| identity | | | | |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-215 |
| identity | | | | |
| - Logical channel identity | | 4 | | RCSU-216 |
| - RLC logical channel mapping | | Not Present | | RCSU-217 |
| indicator | | | | |
| - Number of uplink RLC logical channels | | 1 | | RCSU-218 |
| channels | | | | |
| - Uplink transport channel type | | RACH | | RCSU-219 |
| - UL Transport channel identity | | Not Present | | RCSU-220 |
| - Logical channel identity | | 4 | | RCSU-221 |
| - CHOICE RLC size list | | Explicit list | | RCSU-222 |
| - RLC size index | | According to clause 6.10.2.4.4.1 | | RCSU-223 |
| - MAC logical channel priority | | 4 | | RCSU-224 |
| - Downlink RLC logical channel info | | | | RCSU-225 |
| - Number of downlink RLC logical channels | | 1 | | RCSU-226 |
| channels | | | | |
| - Downlink transport channel type | | FACH | | RCSU-227 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-228 |
| identity | | | | |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-229 |
| identity | | | | |
| - Logical channel identity | | 4 | | RCSU-230 |
| UL Transport channel information for all transport channels | | | | RCSU-231 |
| - PRACH TFCS | | Not Present | | RCSU-232 |
| - CHOICE Mode | | FDD | | RCSU-233 |
| - TFC subset | | Not Present | | RCSU-234 |
| - UL DCH TFCS | | | | RCSU-235 |
| - CHOICE TFCI signalling | | Normal | | RCSU-236 |
| - TFCI Field 1 information | | | | RCSU-237 |
| - CHOICE TFCS representation | | Complete | | RCSU-238 |
| - TFCS complete reconfigure | | | | RCSU-239 |
| - CHOICE CTFC Size | | 2bit CTFC | | RCSU-240 |
| - CTFC information | | This IE is repeated for TFC numbers according to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCSU-241 |
| - CTFC | | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | | RCSU-242 |
| - Power offset information | | | | RCSU-243 |
| - CHOICE Gain Factors | | Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | RCSU-244 |
| - Gain factor β_c | | 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the above is set to Computed Gain Factors) | | RCSU-245 |
| - Gain factor β_d | | 15 (Not Present if the above is set to | | RCSU-246 |

| Information Element | Condition | Value/remark | Version | Index | | | |
|--|---------------|---|---------|---|-------------------|----------|--|
| <ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset Pp-m Added or Reconfigured TrCH information list | | Computed Gain Factors) | | RCSU-247 | | | |
| | | 0 | | RCSU-248 | | | |
| | | FDD | | RCSU-249 | | | |
| | | Not Present | | RCSU-250 | | | |
| | | TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1" | | RCSU-251 | | | |
| | | - Added or Reconfigured UL TrCH information | | | | | |
| | | - Uplink transport channel type | | DCH | RCSU-252 | | |
| | | - UL Transport channel identity | | 5 | RCSU-253 | | |
| | | - TFS | | | RCSU-254 | | |
| | | - CHOICE Transport channel type | | Dedicated transport channels | RCSU-255 | | |
| | | - Dynamic Transport format information | | | RCSU-256 | | |
| | | - RLC Size | | bitMode sizeType2 {part1 2, part2 OMIT} | RCSU-257 | | |
| | | | | This results in an RLC size of 144 bits | | | |
| | | - Number of TBs and TTI List | | List with two entry | RCSU-258 | | |
| | | - Transmission Time Interval | | Not Present | RCSU-259 | | |
| | | - Number of Transport blocks | | 0 | RCSU-260 | | |
| | | - Transmission Time Interval | | Not Present | RCSU-261 | | |
| | | - Number of Transport blocks | | 1 | RCSU-262 | | |
| | | - CHOICE Logical channel List | | ALL | RCSU-263 | | |
| | | - Semi-static Transport Format information | | | RCSU-264 | | |
| - Transmission time interval | 40 ms | RCSU-265 | | | | | |
| - Type of channel coding | Convolutional | RCSU-266 | | | | | |
| - Coding Rate | 1/3 | RCSU-267 | | | | | |
| - Rate matching attribute | -170 | RCSU-268 | | | | | |
| - CRC size | 16 | RCSU-269 | | | | | |
| DL Transport channel information common for all transport channel | | RCSU-270 | | | | | |
| - SCCPCH TFCS | Not Present | RCSU-271 | | | | | |
| <ul style="list-style-type: none"> - CHOICE mode - CHOICE DL parameters Added or Reconfigured TrCH information list | | FDD | | RCSU-272 | | | |
| | | Same as UL | | RCSU-273 | | | |
| | | TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1" | | RCSU-274 | | | |
| | | - Added or Reconfigured DL TrCH information | | | | RCSU-275 | |
| | | - Downlink transport channel type | | DCH | RCSU-276 | | |
| | | - DL Transport channel identity | | 10 | RCSU-277 | | |
| | | - CHOICE DL parameters | | Same as UL | RCSU-278 | | |
| | | - Uplink Transport channel type | | DCH | RCSU-279 | | |
| | | - UL TrCH identity | | 5 | RCSU-280 | | |
| | | - DCH quality target | | Not Present | RCSU-281 | | |
| | | Frequency info | | Not present | RCSU-282 | | |
| | | Maximum allowed UL TX power | | Not present | RCSU-283 | | |
| | | CHOICE channel requirement | | Not Present | RCSU-284 | | |
| | | E-DCH Info | | Not Present | Rel-6 RCSU-285 | | |
| | | Downlink HS-PDSCH Information | | Not Present | Rel-6 RCSU-286 | | |
| | | Downlink information common for all radio links | | Not Present | RCSU-287 | | |
| | | Downlink information for each radio link list | | Not present | RCSU-288 | | |

| Condition | Explanation | Version |
|-----------------|--|---------|
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8 |

Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element | Value/remark | Version |
|---------------------|--------------|---------|
|---------------------|--------------|---------|

| | | |
|---|---|--------|
| Message Type | | |
| RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message. | |
| START list | This IE is checked to see if it is present. | |
| UE radio access capability | Not checked | |
| - Access stratum release indicator | Not checked | |
| - DL capability with simultaneous HS-DSCH configuration | Not checked | REL-5 |
| - PDCP capability | Not checked | |
| - RLC capability | Not checked | |
| - Transport channel capability | Not checked | |
| - RF capability FDD | Not checked | |
| - RF capability TDD | Not checked | REL-4 |
| - RF capability TDD 1.28 Mcps | Not checked | REL-4 |
| - Physical channel capability | Not checked | |
| - UE multi-mode/multi-RAT capability | Not checked | |
| - Security capability | | |
| - Ciphering algorithm capability | | |
| >UEA0 | TRUE | |
| >UEA1 | TRUE | |
| >UEA2 | To be checked against PICS | REL-7 |
| - Integrity protection algorithm capability | | |
| >UIA1 | TRUE | |
| >UIA2 | To be checked against PICS | REL-7 |
| - UE positioning capability | Not checked | |
| - Measurement capability | Not checked | |
| - Measurement capability TDD | Not checked | REL-8 |
| - Device type | Not checked | REL-6 |
| - Support for System Information Block type 11bis | Not checked | REL-6 |
| - Support for F-DPCH | To be checked against requirement if specified | REL-6 |
| - MAC-ehs support | To be checked against requirement if specified | REL-7 |
| - UE specific capability Information | Not checked | REL-7 |
| LCR TDD | | |
| - Support for E-DPCCH Power Boosting | Not checked | REL-7 |
| - Support of common E-DCH | To be checked against requirement if specified | REL-8 |
| - Support of MAC-i/is | To be checked against requirement if specified | REL-8 |
| - Support of SPS operation | Not checked | REL-8 |
| - Support of Control Channel DRX operation | Not checked | REL-8 |
| - Support of CSG | To be checked against requirement if specified | REL-8 |
| - Support for Two DRX schemes in URA_PCH and CELL_PCH | To be checked against requirement if specified | REL-7 |
| - Support for E-DPDCH power interpolation formula | Not checked | REL-7 |
| - Support for absolute priority based cell re-selection in UTRAN | To be checked against requirement if specified | REL-8 |
| - Support of MU-MIMO | Not checked | REL-10 |
| - Radio Access Capability Band Combination List | To be checked against requirement if specified | REL-9 |
| - Support of TX Diversity on DL Control Channels by MIMO Capable UE when MIMO operation is active | To be checked against requirement if specified | REL-7 |
| - Support of enhanced TS0 | To be checked against requirement if specified | REL-9 |
| - Support for cell-specific Tx diversity configuration for dual-cell operation | To be checked against requirement if specified | REL-8 |
| - CSG proximity indication capability | To be checked against requirement if specified | REL-9 |
| - Neighbour Cell SI acquisition capability | To be checked against requirement if specified | REL-9 |
| - Extended measurements Support | To be checked against requirement if specified | REL-9 |
| - Support for dual cell with MIMO operation in different bands | To be checked against requirement if specified | REL-10 |
| - UE based network performance | To be checked against requirement if specified | REL-10 |

| | | |
|---|---|--------|
| measurements parameters | | |
| - Support of UTRAN ANR | To be checked against requirement if specified | REL-10 |
| UE radio access capability extension | Not checked | |
| UE system specific capability | Not checked | |
| Deferred measurement control reading | Not Present for Rel-7 or later, otherwise Not checked | |
| Logged Meas Available | Not checked | REL-10 |
| ANR Logging Results Available | Not checked | REL-10 |
| Connection Establishment Failure Info Available | Not checked | REL-11 |

Contents of RRC STATUS message: AM

| Information Element | Value/remark |
|------------------------------------|--|
| Message Type | |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Identification of received message | Not Checked |
| Protocol error information | |
| - Protocol error cause | Refer to test requirement. |

Contents of SECURITY MODE COMMAND message: AM

| Information Element | Condition | Value/remark | Version |
|---|-----------|--|---------|
| Message Type | A1, A2 | | |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | | | |
| - Message authentication code | | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message Sequence Number | | Set to an arbitrarily selected integer between 0 and 15 | |
| Security capability | | | |
| - Ciphering algorithm capability | | | |
| - UEA0 | | If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. | |
| - UEA1 | | If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. | |
| - UEA2 | | If the UE has indicated support for ciphering algorithm UEA2 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. | Rel-7 |
| - Spare | | Spare 3-15 = FALSE | |
| - Integrity protection algorithm capability | | 000000000000010B (UIA1) | |
| - UIA1 | | TRUE | |
| - UIA2 | | If the UE has indicated support for integrity algorithm UIA2 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. | Rel-7 |
| - Spare | | Spare 0 and Spare 3-15 = FALSE | |
| Ciphering mode info | | This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. | |
| - Ciphering mode command | | Start/restart | |
| - Ciphering algorithm | | UEA0 or UEA1 or UEA2. The indicated algorithm must be one of the algorithms supported by the | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|--|---------|
| <ul style="list-style-type: none"> - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number | | UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present 1 Current RLC SN 2 Current RLC SN+2 3 Current RLC SN 4 Current RLC SN | |
| Integrity protection mode info <ul style="list-style-type: none"> - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm | | Start Not Present UIA1 or UIA2. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked | |
| - Integrity protection initialisation number CN domain identity UE system specific security capability UE system specific security capability <ul style="list-style-type: none"> - Inter-RAT UE security capability - CHOICE <i>system</i> - GSM security capability | A1 A2 | GSM The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message. | |

| Condition | Explanation |
|-----------|-----------------------|
| A1 | UE not supporting GSM |
| A2 | UE supporting GSM |

Contents of SECURITY MODE COMPLETE message: AM

| Information Element | Value/remark |
|---|---|
| Message Type RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message. |
| Integrity check info <ul style="list-style-type: none"> - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| <ul style="list-style-type: none"> - RRC Message sequence number Uplink integrity protection activation info Radio bearer uplink ciphering activation time info | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all ciphered uplink RLC-UM and RLC-AM RBs. |

Contents of SECURITY MODE FAILURE message: AM

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type | |

| | |
|---|--|
| RRC transaction identifier | Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message. |
| Integrity check info - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Refer to test requirement. |

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|--|--------------------|--------------------|
| Message Type | A1, A2, A3, A4, A5, A6 | | | TCR-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | TCR-002 |
| Integrity check info - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | TCR-003 TCR-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | TCR-005 |
| Integrity protection mode info | | Not Present | | TCR-006 |
| Ciphering mode info | | Not Present | | TCR-007 |
| Activation time | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | TCR-008 |
| Activation time | A4, A5, A6 | Not Present | | TCR-009 |
| Delay restriction flag | A1, A2, A3, A4, A5, A6 | Not Present | Rel-6 | TCR-010 |
| New U-RNTI | | Not Present | | TCR-011 |
| New C-RNTI | A1, A2, A3, A4 | Not Present | | TCR-012 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | TCR-013 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | R99 and Rel-4 only | TCR-014 |
| New H-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | TCR-015 |
| New Primary E-RNTI | | Not Present | Rel-6 | TCR-016 |
| New Secondary E-RNTI | | Not Present | Rel-6 | TCR-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | TCR-018 |
| RRC State indicator | A5, A6 | CELL_FACH | | TCR-019 |
| UE Mobility State Indicator | | Not Present | Rel-7 | TCR-020 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | TCR-021 |
| CN information info | | Not Present | | TCR-022 |
| URA identity | | Not Present | | TCR-023 |
| RNC support for change of UE capability | | Not Present | Rel-7 | TCR-024 |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 | TCR-025 |
| Downlink counter synchronization info | | Not Present | | TCR-026 |
| UL Transport channel information for all transport channels | A1, A2, A5, A6 | Not Present | | TCR-027 |
| UL Transport channel information for all transport channels | A3, A4 | | | TCR-028 |
| - PRACH TFCS | | Not Present | | TCR-029 |
| - CHOICE mode | | FDD | | TCR-030 |
| - TFC subset | | Not Present | | TCR-031 |
| - UL DCH TFCS | | | | TCR-032 |
| - CHOICE TFCSI signalling | | Normal | | TCR-033 |
| - TFCI Field 1 information | | | | TCR-034 |
| - CHOICE TFCS representation | | Complete reconfiguration | | TCR-035 |
| - TFCS complete reconfigure information | | | | TCR-036 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | TCR-037 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|--|---------|---------|
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set | | TCR-038 |
| - CTFC | | Reference to clause 6.10.2.4 Parameter Set | | TCR-039 |
| - Power offset information | | | | TCR-040 |
| - CHOICE Gain Factors | | Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | TCR-041 |
| - Gain factor β_c | | 11 (equal or below 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | TCR-042 |
| - Gain factor β_d | | 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | TCR-043 |
| - Reference TFC ID | | 0 | | TCR-044 |
| - CHOICE mode | | FDD | | TCR-045 |
| - Power offset P_{p-m} | | Not Present | | TCR-046 |
| Added or Reconfigured UL TrCH information | A1, A2, A5, A6 | Not Present | | TCR-047 |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR-048 |
| - Uplink transport channel type | | DCH | | TCR-049 |
| - UL Transport channel identity | | 5 | | TCR-050 |
| - TFS | | | | TCR-051 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR-052 |
| - Dynamic Transport format information | | | | TCR-053 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | TCR-054 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | TCR-055 |
| - Transmission Time Interval | | Not Present | | TCR-056 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | TCR-057 |
| - CHOICE Logical channel list | | All | | TCR-058 |
| - Semi-static Transport Format information | | | | TCR-059 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | TCR-060 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | TCR-061 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | TCR-062 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | TCR-063 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | TCR-064 |
| - Uplink transport channel type | | DCH | | TCR-065 |
| - UL Transport channel identity | | 1 | | TCR-066 |
| - TFS | | | | TCR-067 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR-068 |
| - Dynamic Transport format information | | | | TCR-069 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | TCR-070 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | TCR-071 |
| - Transmission Time Interval | | Not Present | | TCR-072 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | TCR-073 |
| - CHOICE Logical channel list | | All | | TCR-074 |
| - Semi-static Transport Format information | | | | TCR-075 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | TCR-076 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | TCR-077 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | TCR-078 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | TCR-079 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | TCR-080 |
| Added or Reconfigured UL TrCH information | A3 | (DCH for DTCH) | | TCR-081 |
| - Uplink transport channel type | | DCH | | TCR-082 |
| - UL Transport channel identity | | 1 | | TCR-083 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------|--|---------|---------|
| - TFS | | | | TCR-084 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR-085 |
| - Dynamic Transport format | | | | TCR-086 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | TCR-087 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | TCR-088 |
| - Transmission Time Interval | | Not Present | | TCR-089 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | TCR-090 |
| - CHOICE Logical channel list | | All | | TCR-091 |
| - Semi-static Transport Format | | | | TCR-092 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | TCR-093 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | TCR-094 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | TCR-095 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | TCR-096 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | TCR-097 |
| CHOICE mode | | Not Present | | TCR-098 |
| DL Transport channel information | A1,A2,A3,A4,A5,A6 | | | |
| common for all transport channel | A1, A2, A5,A6 | Not Present | | TCR-099 |
| DL Transport channel information | A3,A4 | | | TCR-100 |
| common for all transport channel | | | | |
| - SCCPCH TFCS | | Not Present | | TCR-101 |
| - CHOICE mode | | FDD | | TCR-102 |
| - CHOICE DL parameters | | Explicit | | TCR-103 |
| - DL DCH TFCS | | | | TCR-104 |
| - CHOICE TFCS Signalling | | Normal | | TCR-105 |
| - TFCS Field 1 Information | | | | TCR-106 |
| - CHOICE TFCS representation | | Complete reconfiguration | | TCR-107 |
| - TFCS complete reconfigure | | | | TCR-108 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | TCR-109 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 | | TCR-110 |
| - CTFC | | Reference to clause 6.10.2.4 Parameter Set | | TCR-111 |
| - Power offset information | | Not Present | | TCR-112 |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present | | TCR-113 |
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR-114 |
| - Downlink transport channel type | | DCH | | TCR-115 |
| - DL Transport channel identity | | 10 | | TCR-116 |
| - CHOICE DL parameters | | Same as UL | | TCR-117 |
| - Uplink transport channel type | | DCH | | TCR-118 |
| - UL TrCH identity | | 5 | | TCR-119 |
| - DCH quality target | | | | TCR-120 |
| - BLER Quality value | | Not Present | | TCR-121 |
| - Downlink transport channel type | | DCH | | TCR-122 |
| - DL Transport channel identity | | 6 | | TCR-123 |
| - CHOICE DL parameters | | Explicit | | TCR-124 |
| | | Except for RAB with the symmetric DL and UL rate: Same as UL | | |
| - TFS | | | | TCR-125 |
| - CHOICE Transport channel type | | Dedicated transport channel | | TCR-126 |
| - Dynamic transport format | | | | TCR-127 |
| information | | | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | TCR-128 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | TCR-129 |
| - Dynamic transport format | | | | TCR-130 |
| information | | | | |
| - Transmission Time Interval | | Not Present | | TCR-131 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | TCR-132 |
| - Semi-static Transport Format | | | | TCR-133 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | TCR-134 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|---|---------|---------|
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | TCR-135 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | TCR-136 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | TCR-137 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | TCR-138 |
| - DCH quality target | | | | TCR-139 |
| - BLER Quality value | | -20 (-2.0) | | TCR-140 |
| Added or Reconfigured DL TrCH information | A3 | | | TCR-141 |
| - Downlink transport channel type | | DCH | | TCR-142 |
| - DL Transport channel identity | | 6 | | TCR-143 |
| - CHOICE DL parameters | | Explicit | | TCR-144 |
| | | Except for RAB with the symmetric DL and UL rate: Same as UL | | |
| - TFS | | | | TCR-145 |
| - CHOICE Transport channel type | | Dedicated transport channel | | TCR-146 |
| - Dynamic transport format information | | | | TCR-147 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | TCR-148 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | TCR-149 |
| - Dynamic transport format information | | | | TCR-150 |
| - Transmission Time Interval | | Not Present | | TCR-151 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | TCR-152 |
| - Semi-static Transport Format information | | | | TCR-153 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | TCR-154 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | TCR-155 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | TCR-156 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | TCR-157 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | TCR-158 |
| - DCH quality target | | | | TCR-159 |
| - BLER Quality value | | -20 (-2.0) | | TCR-160 |
| Frequency info | A1,A2,A3,A4,A5 | | | TCR-161 |
| - UARFCN uplink (Nu) | | Not present | | TCR-162 |
| | | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] | | |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | TCR-163 |
| Frequency info | A6 | Not Present | | TCR-164 |
| DTX-DRX timing information | | Not Present | Rel-7 | TCR-165 |
| DTX-DRX Information | | Not Present | Rel-7 | TCR-166 |
| HS-SCCH less Information | | Not Present | Rel-7 | TCR-167 |
| MIMO parameters | | Not Present | Rel-7 | TCR-168 |
| Maximum allowed UL TX power | A1, A2, A3, A4, A5, A6 | 33dBm | | TCR-169 |
| CHOICE <i>channel requirement</i> | A5, A6 | Not Present | | TCR-170 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | TCR-171 |
| -Uplink DPCH power control info | | | | TCR-172 |
| - DPCCH power offset | | -40 (-80dB) | | TCR-173 |
| - PC Preamble | | 1 frame | | TCR-174 |
| - SRB delay | | 7 frames | | TCR-175 |
| - Power Control Algorithm | | Algorithm1 | | TCR-176 |
| - TPC step size | | 0 (1dB) | | TCR-177 |
| - Δ_{ACK} | | Not Present | Rel-5 | TCR-178 |
| - Δ_{NACK} | | Not Present | Rel-5 | TCR-179 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 | TCR-180 |
| - Scrambling code type | | Long | | TCR-181 |
| - Scrambling code number | | 0 (0 to 16777215) | | TCR-182 |
| - Number of DPDCH | | Not Present(1) | | TCR-183 |
| - spreading factor | | Reference to clause 6.10 Parameter Set | | TCR-184 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | TCR-185 |
| - Number of FBI bit | | Reference to clause 6.10 Parameter Set | | TCR-186 |
| - Number of TPC bits | | Not Present | Rel-7 | TCR-187 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | TCR-188 |
| E-DCH Info | | Not Present | Rel-6 | TCR-189 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|---|--------------------|---------|
| CHOICE Mode | A1, A2, A3, A4, A5, A6 | FDD | R99 and Rel-4 only | TCR-190 |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only | TCR-191 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | TCR-192 |
| Downlink information common for all radio links | A5, A6 | Not Present | | TCR-193 |
| Downlink information common for all radio links | A1, A2, A3 | | | TCR-194 |
| - Downlink DPCH info common for all RL | | | | TCR-195 |
| - Timing indicator | | Maintain | | TCR-196 |
| - CFN-targetSFN frame offset | | Not Present | | TCR-197 |
| - Downlink DPCH power control information | | | | TCR-198 |
| - DPC mode | | 0 (single) | | TCR-199 |
| - CHOICE mode | | FDD | | TCR-200 |
| - Power offset $P_{\text{Pilot-DPCH}}$ | | 0 | | TCR-201 |
| - DL rate matching restriction information | | Not Present | | TCR-202 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | TCR-203 |
| - Fixed or Flexible Position | | Reference to clause 6.10 Parameter Set | | TCR-204 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | TCR-205 |
| - CHOICE SF | | Reference to clause 6.10 Parameter Set | | TCR-206 |
| - DPCH compressed mode info | | Not Present | | TCR-207 |
| - TX Diversity mode | | None | | TCR-208 |
| - SSdT information | | Not Present | R99 and Rel-4 only | TCR-209 |
| - Default DPCH Offset Value | | Not Present | | TCR-210 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | TCR-211 |
| Downlink information common for all radio links | A4 | | | TCR-212 |
| - Downlink DPCH info common for all RL | | | | TCR-213 |
| - Timing indicator | | Initialize | | TCR-214 |
| - CFN-targetSFN frame offset | | Not Present | | TCR-215 |
| - Downlink DPCH power control information | | | | TCR-216 |
| - DPC mode | | 0 (single) | | TCR-217 |
| - CHOICE mode | | FDD | | TCR-218 |
| - Power offset $P_{\text{Pilot-DPCH}}$ | | 0 | | TCR-219 |
| - DL rate matching restriction information | | Not Present | | TCR-220 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | TCR-221 |
| - Fixed or Flexible Position | | Reference to clause 6.10 Parameter Set | | TCR-222 |
| - TFCI existence | | Reference to clause 6.10 Parameter Set | | TCR-223 |
| - CHOICE SF | | Reference to clause 6.10 Parameter Set | | TCR-224 |
| - DPCH compressed mode info | | Not Present | | TCR-225 |
| - TX Diversity mode | | None | | TCR-226 |
| - SSdT information | | Not Present | R99 and Rel-4 only | TCR-227 |
| - Default DPCH Offset Value | | Arbitrary set to value 0..306688 by step of 512 | | TCR-228 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | TCR-229 |
| Downlink information for each radio link list | A1, A2, A3 | | | TCR-230 |
| - Downlink information for each radio links | | | | TCR-231 |
| - CHOICE mode | | FDD | | TCR-232 |
| - Primary CPICH info | | | | TCR-233 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | TCR-234 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | TCR-235 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | TCR-236 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|--------------------|---------|
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | TCR-237 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | TCR-238 |
| - Downlink DPCH info for each RL | | Primary CPICH may be used | | TCR-239 |
| - Primary CPICH usage for channel estimation | | | | TCR-240 |
| - DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | TCR-241 |
| - Power offset $P_{\text{Pilot-DPDCH}}$ | | 0 | | TCR-242 |
| - Secondary CPICH info | | Not Present | | TCR-243 |
| - DL channelisation code | | | | TCR-244 |
| - Secondary scrambling code | | 4 | | TCR-245 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | TCR-246 |
| - Code number | | 0 | | TCR-247 |
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | TCR-248 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | TCR-249 |
| - SSST Cell Identity | | 0 | R99 and Rel-4 only | TCR-250 |
| - Closed loop timing adjustment mode | | Not Present | | TCR-251 |
| - E-AGCH Info | | Not Present | Rel-6 | TCR-252 |
| - E-HICH Information | | Not Present | Rel-6 | TCR-253 |
| - E-RGCH Information | | Not Present | Rel-6 | TCR-254 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | TCR-255 |
| Downlink information for each radio link list | A4 | | | TCR-256 |
| - Downlink information for each radio link | | | | TCR-257 |
| - CHOICE mode | | FDD | | TCR-258 |
| - Primary CPICH info | | | | TCR-259 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | TCR-260 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | TCR-261 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | TCR-262 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | TCR-263 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | TCR-264 |
| - Downlink DPCH info for each RL | | | | TCR-265 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | TCR-266 |
| - DPCH frame offset | | Set to value: Default DPCH Offset Value mod 38 400 | | TCR-267 |
| - Power offset $P_{\text{Pilot-DPDCH}}$ | | 0 | | TCR-268 |
| - Secondary CPICH info | | Not Present | | TCR-269 |
| - DL channelisation code | | | | TCR-270 |
| - Secondary scrambling code | | 4 | | TCR-271 |
| - Spreading factor | | Reference to clause 6.10 Parameter Set | | TCR-272 |
| - Code number | | 0 | | TCR-273 |
| - Scrambling code change | | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | | TCR-274 |
| - TPC combination index | | Set to value Default2: OMIT (otherwise) | | TCR-275 |
| - SSST Cell Identity | | 0 | R99 and Rel-4 only | TCR-276 |
| - Closed loop timing adjustment | | Not Present | | TCR-277 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|---|--------------------|---------|
| mode | | | | |
| - E-AGCH Info | | Not Present | Rel-6 | TCR-278 |
| - E-HICH Information | | Not Present | Rel-6 | TCR-279 |
| - E-RGCH Information | | Not Present | Rel-6 | TCR-280 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | TCR-281 |
| - Downlink information for each radio link | A5 | | | TCR-282 |
| - Choice mode | | FDD | | TCR-283 |
| - Primary CPICH info | | | | TCR-284 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | TCR-285 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | TCR-286 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | TCR-287 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | TCR-288 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | TCR-289 |
| - Downlink DPCH info for each RL | | Not present | | TCR-290 |
| - E-AGCH Info | | Not Present | Rel-6 | TCR-291 |
| - E-HICH Information | | Not Present | Rel-6 | TCR-292 |
| - E-RGCH Information | | Not Present | Rel-6 | TCR-293 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | TCR-294 |
| - Downlink information for each radio link | A6 | Not Present | | TCR-295 |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-6 | TCR-296 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked |
| CHOICE mode | FDD |
| Deferred measurement control reading | Not present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|----------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |
| Integrity check info | |

| | |
|-------------------------------|--|
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

| Information Element | Value/remark |
|--|--|
| Message Type | Arbitrarily selects an integer between 0 and 3 |
| RRC transaction identifier | |
| Integrity check info | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| CHOICE mode | FDD |
| DPCH/PUSCH TFCS in Uplink | Allowed transport format combination list |
| - CHOICE <i>Subset representation</i> | |
| - Allowed Transport format combination | 0 (The TFC is constructed from ALL TF0) |
| Activation time for TFC subset | Not Present |
| TFC Control duration | Not Present |

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |
| RRC transaction identifier | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of UE CAPABILITY ENQUIRY message: AM or UM

| Information Element | Value/remark |
|--|--|
| Message Type | Arbitrarily selects an integer between 0 and 3 |
| RRC transaction identifier | |
| Integrity check info | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| Capability update requirement | TRUE |
| - UE radio access FDD capability update requirement | |
| - UE radio access TDD capability update requirement | FALSE |
| - System specific capability update requirement list | Not Present |

Contents of UE CAPABILITY INFORMATION message: AM

| Information Element | Value/remark |
|----------------------------|--|
| Message Type | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message. |
| RRC transaction identifier | |
| Integrity check info | |

| Information Element | Value/remark |
|--------------------------------------|--|
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | |
| UE radio access capability | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings |
| - Access stratum release indicator | Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings |
| - PDCP Capability | |
| - RLC Capability | |
| - Transport channel capability | |
| - RF Capability FDD | |
| - RF Capability TDD | |
| - Physical channel capability | |
| - UE multi-mode/multi-RAT capability | |
| - Security Capability | |
| - UE positioning Capability | |
| - Measurement capability | |
| UE radio access capability extension | Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings |
| UE system specific capability | Not Checked |

Contents of UE CAPABILITY INFORMATION CONFIRM message: AM or UM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | Set to the same value as received in the UE CAPABILITY INFORMATION message. |
| RRC transaction identifier | |
| Integrity check info | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. |
| - Message authentication code | |
| - RRC Message sequence number | |

Contents of UE INFORMATION REQUEST: AM

| Information Element | Condition | Value/remark | Version |
|------------------------------------|-----------|--|---------|
| Message Type | | Arbitrarily selects an integer between 0 and 3 | Rel-10 |
| RRC transaction identifier | | | Rel-10 |
| Integrity check info | | | Rel-10 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. | |
| - RRC message sequence number | | | |
| Logged Measurements Report Request | A1 | Not Present | Rel-10 |
| Logged ANR Report Request | A1 | TRUE | Rel-10 |

| Condition | Explanation | Version |
|-----------|--|---------|
| A1 | Configuring of IE for requesting Logged ANR Report | Rel-10 |

Contents of UE INFORMATION RESPONSE: AM

| Information Element | Value/remark | Version |
|-------------------------------|---|---------|
| Message Type | Arbitrarily selects an integer between 0 and 3 | Rel-10 |
| RRC transaction identifier | | Rel-10 |
| Integrity check info | SS calculates the value of MAC-I for this message and | Rel-10 |
| - message authentication code | | |

| Information Element | Value/remark | Version |
|-------------------------------|--|---------|
| - RRC message sequence number | writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| Logged Meas Report | SS provides the value of this IE, from its internal counter. | Rel-10 |
| Logged ANR Report Info | Not Checked | Rel-10 |

Contents of URA UPDATE message: TM

| Information Element | Value/remark | Version |
|----------------------------------|--|---------|
| Message Type | | |
| U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| RRC transaction identifier | Checked to see if it is absent | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| URA update cause | See the test content | |
| Protocol error indicator | Checked to see if it is absent or set to 'FALSE' | |
| HS-PDSCH in CELL_PCH and URA_PCH | Not checked | |
| HS-PDSCH in CELL_FACH | Not checked | |
| Protocol error information | Checked to see if it is absent | |
| Logged Meas Available | Not checked | Rel-10 |

Contents of URA UPDATE CONFIRM message: UM

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| U-RNTI | | |
| - SRNC identity | If this message is sent on CCCH, use the following values. Else, this IE is absent. | |
| - S-RNTI | 0000 0000 0001B | |
| RRC transaction identifier | 0000 0000 0000 0000 0001B | |
| Integrity check info | Arbitrarily selects and integer between 0 and 3 | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | |
| Integrity protection mode info | Not Present | |
| Ciphering mode info | Not Present | |
| New U-RNTI | Not Present | |
| New C-RNTI | Not Present | |
| RRC state indicator | URA_PCH | |
| UTRAN DRX cycle length coefficient | 3 | |
| CN information info | Not Present | |
| URA identity | Not Present | |
| RNC support for change of UE capability | Not Present | |
| Downlink counter synchronization info | Not Present | |
| Logged Meas Available | Not Present | Rel-10 |
| ANR Logging Results Available | Not Present | Rel-10 |

Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |

| | |
|-------------------------------|--|
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| CN domain identity | Checked to see if set to a CN domain for which a signalling connection exists |
| NAS message | Set according to that indicated in specific message content clause |
| Measured results on RACH | Not checked |

Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element | Condition | Value/remark |
|---|--------------------|--|
| Message Type | | |
| Integrity check info | | |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 |
| Integrity protection mode info | | Not Present |
| Ciphering mode info | | Not Present |
| New U-RNTI | | See the test content |
| New C-RNTI | | See the test content |
| New H-RNTI | | Not Present |
| UE Timers and constants in connected mode | | |
| - T301 | | 2 000 milliseconds |
| - N301 | | 2 |
| - T302 | | 4 000 milliseconds |
| - N302 | | 3 |
| - T304 | | 1 000 milliseconds |
| - N304 | | 3 |
| - T305 | | 60 minutes |
| - T307 | | 50 seconds |
| - T308 | | 320 milliseconds |
| - T309 | | 8 seconds |
| - T310 | | 320 milliseconds |
| - N310 | | 5 |
| - T311 | | 500 milliseconds |
| - T312 | | 5 seconds |
| - N312 | | 200 |
| - T313 | | 10 seconds |
| - N313 | | 200 |
| - T314 | | 20 seconds |
| - T315 | | 30 seconds |
| - N315 | | 200 |
| - T316 | | 50 seconds |
| - T317 | | 1 800 seconds |
| CN information info | | Not Present |
| URA identity | | Not present |
| RNC support for change of UE capability | | Not Present |
| Downlink counter synchronization info | | Not Present |
| Dedicated WLAN Offload Information | WLAN | |
| - CHOICE Configuration info | | New configuration |
| - T330 | | 10 |
| - WLAN Offload Information | | |
| - WLAN Offload Configuration | | |
| -Threshold Serving RSCP | RSCP | |
| -ThreshservingOffloadWLAN, low | | Set according to specific message content |
| -ThreshservingOffloadWLAN, high | | Set according to specific message content |
| -Threshold Serving Ec/No | Ec/No | |
| -ThreshservingOffloadWLAN, low2 | | Set according to specific message content |
| -ThreshservingOffloadWLAN, high2 | | Set according to specific message content |
| -Threshold Channel Utilization | ChannelUtilization | |
| -ThreshchUtilWLAN, low | | Set according to specific message content |
| -ThreshchUtilWLAN, high | | Set according to specific message content |
| -Threshold Backhaul Bandwidth | BackHaul | |
| -ThreshbackhRateDLWLAN, low | | Set according to specific message content |
| -ThreshbackhRateDLWLAN, high | | Set according to specific message content |
| -ThreshbackhRateULWLAN, low | | Set according to specific message content |
| -ThreshbackhRateULWLAN, high | | Set according to specific message content |
| -Threshold Beacon RSSI | RSSI | |
| -ThreshBeaconRSSIWLAN, low | | Set according to specific message content |
| -ThreshBeaconRSSIWLAN, high | | Set according to specific message content |
| -Offload Preference Indicator | | '1111 1111 1111 1111'B |
| -TsteeringWLAN | | 0 |

| | | |
|-----------------------|--|--|
| -WLAN Identifier List | | Only 1 WLAN identifier bradcasted |
| - WLAN Identifier | | |
| - WLAN Type ID | | |
| - SSID | | Set as per Table 4.4.8-1 of 36.508[45] |
| -BSSID | | Not Present |
| -HESSID | | Not Present |

| Condition | Explanation |
|--------------------|---|
| WLAN | RAN Assisted WLAN interworking test cases |
| RSCP | RSCP based thresholds are to be used |
| Ec/No | Ec/No based thresholds are to be used |
| ChannelUtilization | Channel Utilization based thresholds are to be used |
| BackHaul | BackHaul Bandwidth based thresholds are to be used |
| RSSI | Beacon RSSI based thresholds are to be used |

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked |
| Deferred measurement control reading | Not Present for Rel-7 or later, otherwise Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not present |

Contents of UTRAN MOBILITY INFORMATION FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure Cause | Checked to see if it meets test requirement |

9.1.2 Default Message Contents for Signalling (TDD)

Contents of RRC STATUS message: AM

| Information Element | Value/remark |
|------------------------------------|--|
| Message Type | |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Identification of received message | Not checked |
| Protocol error information | |
| - Protocol error cause | Refer to test requirement. |

Contents of SECURITY MODE FAILURE message: AM

| Information Element | Value/remark |
|--------------------------------|--|
| Message Type | |
| UE information elements | |
| RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Refer to test requirement. |

Contents of URA UPDATE message: TM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| U-RNTI | Checked to see if it is set to the following values |
| - SRNC identity | 0000 0000 0001B |
| - S-RNTI | 0000 0000 0000 0000 0001B |
| RRC transaction identifier | Checked to see if it is absent |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| URA update cause | See the test content |
| Protocol error indicator | Checked to see if it is absent or set to 'FALSE' |
| Protocol error information | Checked to see if it is absent |

Contents of URA UPDATE CONFIRM message: UM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| U-RNTI | If this message is sent on CCCH, use the following values. Else, this IE is absent. |
| - SRNC identity | 0000 0000 0001B |
| - S-RNTI | 0000 0000 0000 0000 0001B |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - Message authentication code | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number | Set to an arbitrarily selected integer between 0 and 15 |

| Information Element | Value/remark |
|---------------------------------------|----------------------|
| Integrity protection mode info | Not present |
| Ciphering mode info | Not present |
| New U-RNTI | Not present |
| New C-RNTI | Not present |
| RRC State Indicator | URA_PCH |
| UTRAN DRX cycle length coefficient | 3 |
| CN Information info | Not present |
| URA identity | See the test content |
| Downlink counter synchronization info | Not present |

Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| CN domain identity | Checked to see if set to a CN domain for which a signalling connection exists |
| NAS message | Set according to that indicated in specific message content for each test case |
| Measured results on RACH | Not checked |

Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element | Value/remark |
|---|--|
| Message Type | |
| Integrity check info | |
| - Message authentication code | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number | Set to an arbitrarily selected integer between 0 and 15 |
| RRC transaction identifier | Arbitrarily selects and integer between 0 and 3 |
| Integrity protection mode info | Not present |
| Ciphering mode info | Not present |
| New U-RNTI | See the test content |
| New C-RNTI | See the test content |
| UE Timers and constants in connected mode | |
| - T301 | 2 000 milliseconds |
| - N301 | 2 |
| - T302 | 4 000 milliseconds |
| - N302 | 3 |
| - T304 | 1 000 milliseconds |
| - N304 | 3 |
| - T305 | 60 minutes |
| - T307 | 50 seconds |
| - T308 | 320 milliseconds |
| - T309 | 8 seconds |
| - T310 | 320 milliseconds |
| - N310 | 5 |
| - T311 | 500 milliseconds |
| - T312 | 5 seconds |
| - N312 | 200 |
| - T313 | 10 seconds |
| - N313 | 200 |
| - T314 | 20 seconds |
| - T315 | 30 seconds |
| - N315 | 200 |
| - T316 | 50 seconds |
| - T317 | 1 800 seconds |
| CN Information info | Not present |

| Information Element | Value/remark |
|---------------------------------------|--------------|
| URA identity | Not present |
| Downlink counter synchronization info | Not present |

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked |
| COUNT-C activation time | Not checked |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronization info | Not checked |

Contents of UTRAN MOBILITY INFORMATION FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure Cause | Checked to see if it meets test requirement |

Contents of UE CAPABILITY ENQUIRY message

| Information Element | Value/remark |
|---|--|
| Message Type | UE CAPABILITY ENQUIRY |
| Integrity check info | Not Present |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | If present, SS provides the value of this IE, from its internal counter. |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Capability update requirement | |
| - UE radio access FDD capability update requirement | FALSE |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE |
| - System specific capability update requirement list | Not Present |

Contents of UE CAPABILITY INFORMATION message (1.28 Mpcs TDD)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | UE CAPABILITY INFORMATION |
| Integrity check info | Not Present |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message |

| Information Element | Value/remark |
|--|--|
| - RRC Message sequence number | and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| RRC transaction identifier | If present, SS provides the value of this IE, from its internal counter. Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message. |
| UE radio access capability | Present |
| - Access stratum release indicator | Rel-5 |
| - DL capability with simultaneous HS-DSCH configuration | Not Present |
| - PDCP capability | |
| - Support for lossless SRNS relocation | TRUE |
| - Support for RFC2507 | TRUE |
| - Max HC context space | 512 |
| - Support for RFC3095 | FALSE |
| - RLC capability | |
| - Total RLC AM buffer size | 150 |
| - Maximum RLC AM Window Size | 2 047 |
| - Maximum number of AM entities | 30 |
| - Transport channel capability | |
| - Downlink transport channel capability information elements | |
| - Max number of bits received | 640 |
| - Max convolutionally coded bits received | 6 400 |
| - Max turbo coded bits received | 6 400 |
| - Max number of simultaneous transport channels | 8 |
| - Maximum number of simultaneous CCH | 1 |
| - Max number of received transport blocks | 32 |
| - Max number of TFC | 128 |
| - Max number of TF | 64 |
| - Turbo decoding supported | TRUE |
| - Uplink transport channel capability information elements | |
| - Max number of bits transmitted | 6 400 |
| - Max convolutionally coded bits transmitted | 6 400 |
| - Max turbo coded bits transmitted | 6 400 |
| - Max number of simultaneous transport channels | 8 |
| - Max number of simultaneous CCH of DCH | 1 |
| - Max number of transmitted transport blocks | 16 |
| - max number of TFC | 64 |
| - Max number of TF | 32 |
| - Turbo coding supported | TRUE |
| - RF capability FDD | Not Present |
| - RF capability TDD | Present |
| - UE power class | 1 |
| - Radio frequency bands | a |
| - Chip rate capability | 1.28 Mcps |
| - Physical channel capability | |
| -Downlink physical channel capability information | |
| - FDD physical channel capability | Not Present |
| - 3.84 Mcps TDD downlink physical channel capability | Not Present |
| - 1.28 Mcps TDD downlink physical channel capability | Present |
| - maxTS per subFrame | 6 |
| - max physical channel per frame | 96 |
| - min. SF | 16 |
| - Support of PDSCH | FALSE |
| - Support of HS-PDSCH | Unsupported |
| - max. physical channel per TS | 16 |
| - Support of 8psk | FALSE |
| -Uplink physical channel capability information | |
| - FDD physical channel capability | Not Present |
| - 3.84 Mcps TDD uplink physical channel capability | Not Present |
| - 1.28 Mcps TDD uplink physical channel capability | Present |
| - maxTS per subFrame | 6 |
| - max physical channel per timeslot | 2 |

| Information Element | Value/remark |
|--|--------------|
| - min. SF | 16 |
| - Support of PDSCH | FALSE |
| - max. physical channel per TS | 16 |
| - Support of 8psk | FALSE |
| - UE multi-mode/multi-RAT capability | |
| - MultiRAT capability List | |
| - Support of GSM | FALSE |
| - Support of Multicarrier | TRUE |
| - MultiMode capability | TDD |
| - Support of UTRAN to GERAN NACC | FALSE |
| - Security capability | |
| - Ciphering algorithm capability | |
| - UEA0 | FALSE |
| - UEA1 | FALSE |
| - Spare | FALSE |
| - Integrity protection algorithm | |
| - UIA1 | FALSE |
| - Spare | FALSE |
| - UE positioning capability | |
| - Standalone location method(s) supported | FALSE |
| - UE based OTDOA supported | FALSE |
| - Network Assisted GPS support | None |
| - Support for GPS timing of cell frames measurement | FALSE |
| - Support for IPDL | FALSE |
| - Support for RX-TX time difference type2 measurement | FALSE |
| - Support for Up measurement validity in CELL-PCH and URA-PCH states | FALSE |
| - Measurement capability | Not Present |
| UE system specific capability | Not present |

Contents of UE CAPABILITY INFORMATION CONFIRM message

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | UE CAPABILITY INFORMATION |
| Integrity check info | Not Present |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | If present, SS provides the value of this IE, from its internal counter. |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message. |

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|---|--|---------|----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | | TCR3-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | TCR3-002 |
| Integrity check info | | | | TCR3-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | TCR3-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | TCR3-005 |
| Integrity protection mode info | | Not Present | | TCR3-006 |
| Ciphering mode info | | Not Present | | TCR3-007 |
| Activation time | A1, A2, A3 | (256+CFN)-(CFN MOD 8 + | | TCR3-008 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|---------------------------|---------|----------|
| Activation time | A4, A5, A6, A7, A8, A9, A10 | 8))MOD 256 Not Present | | TCR3-009 |
| New U-RNTI | | Not Present | | TCR3-010 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | | TCR3-011 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | TCR3-012 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR3-013 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | TCR3-014 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | TCR3-015 |
| RRC State indicator | A5, A6 | CELL_FACH | | TCR3-016 |
| RRC State indicator | A7, A8 | URA_PCH | | TCR3-017 |
| RRC State indicator | A9, A10 | CELL_PCH | | TCR3-018 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4,A5,A6 | Not Present | | TCR3-019 |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | | TCR3-020 |
| CN information info | | Not Present | | TCR3-021 |
| URA identity | | Not Present | | TCR3-022 |
| Downlink counter synchronisation info | | Not Present | | TCR3-023 |
| UL Transport channel information common for all transport channels | A1, A2, A5, A6 | Not Present | | TCR3-024 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|---|---------|----------|
| UL Transport channel information common for all transport channels | A3, A4 | | | TCR3-025 |
| - PRACH TFCS | | Not Present | | TCR3-026 |
| - CHOICE mode | | TDD | | TCR3-027 |
| - Individual UL CCTrCH information | | | | TCR3-028 |
| - UL TFCS Identity | | | | TCR3-029 |
| - TFCS ID | | 1 | | TCR3-030 |
| - Shared Channel Indicator | | FALSE | | TCR3-031 |
| - UL TFCS | | | | TCR3-032 |
| - CHOICE <i>TFCI signalling</i> | | Normal | | TCR3-033 |
| - TFCI Field 1 Information | | | | TCR3-034 |
| - CHOICE <i>TFCS representation</i> | | Complete reconfiguration | | TCR3-035 |
| - TFCS complete reconfiguration information | | | | TCR3-036 |
| - CHOICE <i>CTFC Size</i> | | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set. | | TCR3-037 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 10.3.4 Parameter Set | | TCR3-038 |
| - CTFC | | Reference to TS34.108 clause 6. 10.3.4 Parameter Set | | TCR3-039 |
| - Power offset information | | | | TCR3-040 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | TCR3-041 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR3-042 |
| - CHOICE Gain Factors | | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | TCR3-043 |
| - CHOICE mode | | TDD | | TCR3-044 |
| - Gain Factor β_d | | 15 | | TCR3-045 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR3-046 |
| - CHOICE mode | | TDD | | TCR3-047 |
| - TFC subset | | | | TCR3-048 |
| - CHOICE Subset representation | | Full transport format combination set | | TCR3-049 |
| - TFC subset list | | Not Present | | TCR3-050 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | TCR3-051 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------|---|---------|----------|
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR3-052 |
| - Added or Reconfigured UL TrCH information | | | | TCR3-053 |
| - Uplink transport channel type | | DCH | | TCR3-054 |
| - UL Transport channel identity | | 5 | | TCR3-055 |
| - TFS | | | | TCR3-056 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-057 |
| - Dynamic Transport format information | | | | TCR3-058 |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-059 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR3-060 |
| - Transmission Time Interval | | Not Present | | TCR3-061 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-062 |
| - CHOICE Logical Channel list | | All | | TCR3-063 |
| - Semi-static Transport Format information | | | | TCR3-064 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-065 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-066 |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-067 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-068 |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-069 |
| - Uplink transport channel type | | DCH | | TCR3-070 |
| - UL Transport channel identity | | 1 | | TCR3-071 |
| - TFS | | | | TCR3-072 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-073 |
| - Dynamic Transport format information | | | | TCR3-074 |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-075 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR3-076 |
| - Transmission Time Interval | | Not Present | | TCR3-077 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-078 |
| - CHOICE Logical Channel list | | All | | TCR3-079 |
| - Semi-static Transport Format information | | | | TCR3-080 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-081 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-082 |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-083 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-084 |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-085 |
| Added or Reconfigured TrCH information list | A3 | (DCH for DTCH) | | TCR3-086 |
| - Added or Reconfigured UL TrCH information | | | | TCR3-087 |
| - Uplink transport channel type | | DCH | | TCR3-088 |
| - UL Transport channel identity | | 1 | | TCR3-089 |
| - TFS | | | | TCR3-090 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-091 |
| - Dynamic Transport format information | | | | TCR3-092 |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-093 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | TCR3-094 |
| - Transmission Time Interval | | Not Present | | TCR3-095 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-096 |
| - CHOICE Logical Channel list | | All | | TCR3-097 |
| - Semi-static Transport Format information | | | | TCR3-098 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------|--|---------|----------|
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-099 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-100 |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-101 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-102 |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-103 |
| CHOICE <i>mode</i> | A1,A2,A3, A4,A5,A6 | TDD | | TCR3-104 |
| Downlink HS-PDSCH Information | | | Rel-5 | TCR3-105 |
| DL Transport channel information common for all transport channels | A1, A2, A5,A6 | Not Present | | TCR3-106 |
| DL Transport channel information common for all transport channels | A3,A4 | | | TCR3-107 |
| - SCCPCH TFCS | | Not Present | | TCR3-108 |
| - CHOICE <i>mode</i> | | TDD | | TCR3-109 |
| - Individual DL CCTrCH information | | | | TCR3-110 |
| - DL TFCS Identity | | | | TCR3-111 |
| - TFCS ID | | 2 | | TCR3-112 |
| - Shared Channel Indicator | | FALSE | | TCR3-113 |
| - CHOICE DL parameters | | Independent | | TCR3-114 |
| - DL TFCS | | | | TCR3-115 |
| - CHOICE TFCI Signalling | | Normal | | TCR3-116 |
| - TFCI Field 1 Information | | | | TCR3-117 |
| - CHOICE TFCS representation | | Complete reconfiguration | | TCR3-118 |
| - TFCS complete reconfiguration information | | | | TCR3-119 |
| - CHOICE CTFC Size | | | | TCR3-120 |
| - CTFC information | | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6. 10.3.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 10.3.4 | | TCR3-121 |
| - CTFC | | Reference to TS34.108 clause 6. 10.3.4 Parameter Set | | TCR3-122 |
| - Power offset information | | Not Present | | TCR3-123 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | TCR3-124 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------|---|---------|----------|
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR3-125 |
| - Added or Reconfigured DL TrCH information | | | | TCR3-126 |
| - Downlink transport channel type | | DCH | | TCR3-127 |
| - DL Transport channel identity | | 10 | | TCR3-128 |
| - CHOICE DL parameters | | Same as UL | | TCR3-129 |
| - Uplink transport channel type | | DCH | | TCR3-130 |
| - UL TrCH identity | | 5 | | TCR3-131 |
| - DCH quality target | | | | TCR3-132 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-133 |
| - Transparent mode signalling info | | Not Present | | TCR3-134 |
| - Downlink transport channel type | | DCH | | TCR3-135 |
| - DL Transport channel identity | | 6 | | TCR3-136 |
| - CHOICE DL parameters | | Explicit | | TCR3-137 |
| - TFS | | | | TCR3-138 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-139 |
| - Dynamic transport format information | | | | TCR3-140 |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-141 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | TCR3-142 |
| - Transmission Time Interval | | Not Present | | TCR3-143 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-144 |
| - Semi-static Transport Format information | | | | TCR3-145 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-146 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-147 |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-148 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-149 |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-150 |
| - DCH quality target | | | | TCR3-151 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-152 |
| Added or Reconfigured TrCH information list | A3 | | | TCR3-153 |
| - Added or Reconfigured DL TrCH information | | | | TCR3-154 |
| - Downlink transport channel type | | DCH | | TCR3-155 |
| - DL Transport channel identity | | 6 | | TCR3-156 |
| - CHOICE DL parameters | | Explicit | | TCR3-157 |
| - TFS | | | | TCR3-158 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-159 |
| - Dynamic transport format information | | | | TCR3-160 |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-161 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | TCR3-162 |
| - Transmission Time Interval | | Not Present | | TCR3-163 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-164 |
| - Semi-static Transport Format information | | | | TCR3-165 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-166 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-167 |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-168 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-169 |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-170 |
| - DCH quality target | | | | TCR3-171 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-172 |
| - Transparent mode signalling info | | Not Present | | TCR3-173 |
| Frequency info | A1, A2, A3, | | | TCR3-174 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------|--|--|--|
| - Choice mode - UARFCN (Nt) | A4, A5 | TDD Reference to clause 5.1 Test frequencies | | TCR3-175 TCR3-176 |
| Frequency info | A6, A7, A8, A9, A10 | Not Present | | TCR3-177 |
| Maximum allowed UL TX power | | 33dBm | | TCR3-178 |
| CHOICE <i>channel requirement</i> | A5, A6, A7, A8, A9, A10 | Not Present | | TCR3-179 |
| CHOICE <i>channel requirement</i> - Uplink DPCH power control info - CHOICE mode - CHOICE TDD option - UL target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - CHOICE TDD option - Timeslot number - TDD UL interference - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option | A1, A2, A3, A4 | Uplink DPCH info TDD 3.84 Mcps TDD 6 Individually Signalled 3.84 Mcps TDD Reference to TS34.108 clause 6.10.3 Parameter Set (for number of TS's) 3.84 Mcps TDD As required by, Reference to TS34.108 clause 6.10.3 Parameter Set As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified - 60 dBm) 18 Integer(6..43) (-70 dBm Received if pathloss not specified) TDD Enabled 3.84 Mcps TDD | Rel-4 Rel-4 Rel-4 Rel-4 | TCR3-180 TCR3-181 TCR3-182 TCR3-183 TCR3-184 TCR3-185 TCR3-186 TCR3-187 TCR3-188 TCR3-189 TCR3-190 TCR3-191 TCR3-192 TCR3-193 TCR3-194 TCR3-195 TCR3-196 |
| - UL CCTrCH List - TFCS ID | | 1 | | TCR3-197 TCR3-198 |
| - UL Target SIR | | Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set. | | TCR3-199 |
| - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCl coding - Puncturing limit - Repetition period - Repetition length - Uplink DPCH timeslots and code - Dynamic SF usage - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCl existence - Midamble shift and burst type | | (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 null FALSE 3.84 Mcps TDD 1 OR 2 OR 3 TRUE | Rel-4 | TCR3-200 TCR3-201 TCR3-202 TCR3-203 TCR3-204 TCR3-205 TCR3-206 TCR3-207 TCR3-208 TCR3-209 TCR3-210 TCR3-211 TCR3-212 TCR3-213 TCR3-214 TCR3-215 TCR3-216 |
| - CHOICE TDD option - Midamble allocation mode - Midamble configuration | | 3.84 Mcps TTD Default midamble 16 | Rel-4 | TCR3-217 TCR3-218 TCR3-219 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|---------|--|
| <ul style="list-style-type: none"> - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-4 | TCR3-220 |
| | | 3.84 Mcps TDD | | TCR3-221 |
| | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | TCR3-222 |
| | | No more timeslots | | TCR3-223 |
| | | Not present | | TCR3-224 |
| | | TDD | | TCR3-225 |
| | | | | TCR3-226 |
| | | No data | | TCR3-227 |
| | | Not Present | | TCR3-228 |
| | | Downlink HS-PDSCH Information | | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |
| Downlink information common for all radio links | A1, A2, A3 | | | TCR3-230 |
| - Downlink DPCH info common for all RL | | | | TCR3-231 |
| - Timing indication | | Maintain | | TCR3-232 |
| - CFN-targetSFN frame offset | | Not Present | | TCR3-233 |
| - Downlink DPCH power control information | | | | TCR3-234 |
| <ul style="list-style-type: none"> - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value Downlink information common for all radio links | A4 | TDD | Rel-4 | TCR3-234 |
| | | 1 | | TCR3-235 |
| | | Not Present | | TCR3-236 |
| | | TDD | | TCR3-237 |
| | | TDD | | TCR3-238 |
| | | 3.84 Mcps TDD | | TCR3-239 |
| | | Not Present | | TCR3-240 |
| | | | | TCR3-241 |
| | | Initialise | | TCR3-242 |
| | | Not Present | | TCR3-243 |
| | | | | TCR3-244 |
| | | | | TCR3-245 |
| | | TDD | | TCR3-246 |
| | | 1 | | TCR3-247 |
| | | Not Present | | TCR3-248 |
| | | TDD | | TCR3-249 |
| TDD | TCR3-250 | | | |
| 3.84 Mcps TDD | TCR3-251 | | | |
| | TCR3-252 | | | |
| <ul style="list-style-type: none"> - CHOICE mode - Default DPCH Offset Value Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 A1, A2, A3 | TDD | Rel-4 | TCR3-253 |
| | | 0 Integer(0..7) | | TCR3-254 |
| | | Not Present | | TCR3-255 |
| | | | | TCR3-256 |
| | | | | TCR3-257 |
| | | TDD | | TCR3-258 |
| | | | | TCR3-259 |
| | | TDD | | TCR3-260 |
| | | 3.84 Mcps TDD | | TCR3-261 |
| | | Sync Case 1 | | TCR3-262 |
| Reference clause 6.1.4 Default settings for cell 1 | TCR3-263 | | | |
| Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | TCR3-264 | | | |
| Integer(0..127) | TCR3-265 | | | |
| FALSE | TCR3-266 | | | |
| | TCR3-267 | | | |
| TDD | TCR3-268 | | | |
| | TCR3-269 | | | |
| 2 Integer(1.8) | | | | TCR3-269 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|--|--|
| <ul style="list-style-type: none"> - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode | | Now Infinite Default value is "Frame" | | TCR3-270 TCR3-271 TCR3-272 TCR3-273 TCR3-274 |
| <ul style="list-style-type: none"> - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option | | Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 NULL 3.84 Mcps TDD | Rel-4 | TCR3-275 TCR3-276 TCR3-277 TCR3-278 TCR3-279 TCR3-280 TCR3-281 TCR3-282 |
| <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CTrCH List to Remove - SCCPCH Information for FACH | A4 | 4 OR 5 OR 6 TRUE 3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.10 Parameter Set No more timeslots Default (is previous list or all defined UL CTrCHs.) 1 FALSE Not present Not Present | Rel-4 Rel-4 R99 and Rel-4 only | TCR3-283 TCR3-284 TCR3-285 TCR3-286 TCR3-287 TCR3-288 TCR3-289 TCR3-290 TCR3-291 TCR3-292 TCR3-293 TCR3-294 TCR3-295 TCR3-296 TCR3-297 TCR3-298 TCR3-299 TCR3-300 TCR3-301 TCR3-302 TCR3-303 TCR3-304 TCR3-305 TCR3-306 TCR3-307 TCR3-308 TCR3-309 TCR3-310 TCR3-311 TCR3-312 TCR3-313 TCR3-314 |
| Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE <i>SyncCase</i> <ul style="list-style-type: none"> - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CTrCh List | | TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE TDD | Rel-4 | |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------|--|--------------------|----------|
| <ul style="list-style-type: none"> - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - SCCPCH Information for FACH Downlink information per radio link list | A5 | 2 Integer(1.8) | | TCR3-315 |
| | | Now | | TCR3-316 |
| | | Infinite | | TCR3-317 |
| | | Default value is "Frame" | | TCR3-318 |
| | | Reference to TS34.108 clause 6 | | TCR3-319 |
| | | Parameter set | | TCR3-320 |
| | | Reference to TS34.108 clause 6 | | TCR3-321 |
| | | Parameter set | | TCR3-322 |
| | | 1 | | TCR3-323 |
| | | NULL | | TCR3-324 |
| | | | | TCR3-325 |
| | | | | TCR3-326 |
| | | | | TCR3-327 |
| | | 3.84 Mcps TDD | Rel-4 | TCR3-328 |
| | | 4 OR 5 OR 6 | | TCR3-329 |
| | | TRUE | | TCR3-330 |
| | | | | TCR3-331 |
| | | 3.84 Mcps TDD | Rel-4 | TCR3-332 |
| | | Type 1 | | TCR3-333 |
| | | Default midamble | | TCR3-334 |
| | | 16 | | TCR3-335 |
| | | Not Present | | TCR3-336 |
| | | 3.84 Mcps TDD | Rel-4 | TCR3-337 |
| | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | TCR3-338 |
| | | Bitmap | | TCR3-339 |
| | | Reference to TS34.108 clause 6.10 Parameter Set | | TCR3-340 |
| | | No more timeslots | | TCR3-341 |
| | | Default (is previous list or all defined UL CCTrCHs.) | | TCR3-342 |
| | | | | TCR3-343 |
| | | 1 | | TCR3-344 |
| | | FALSE | | TCR3-345 |
| | | Not present | | TCR3-346 |
| | | Not Present | R99 and Rel-4 only | TCR3-347 |
| | | TCR3-348 | | |
| | | TCR3-349 | | |
| TDD | | TCR3-350 | | |
| | | TCR3-351 | | |
| TDD | Rel-4 | TCR3-352 | | |
| 3.84 Mcps TDD | | TCR3-353 | | |
| Sync Case 1 | | TCR3-354 | | |
| Reference clause 6.1.4 Default settings for cell 1 | | TCR3-355 | | |
| Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | | TCR3-356 | | |
| Integer(0..127) | | | | |
| FALSE | | TCR3-357 | | |
| Not Present | | TCR3-358 | | |
| Not Present | R99 and Rel-4 only | TCR3-359 | | |
| | | TCR3-360 | | |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

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|---------------------|-----------|--------------|---------|-------|

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|---------|-----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | | TCR1-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | TCR1-002 |
| Integrity check info | | | | TCR1-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | TCR1-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | TCR1-005 |
| Integrity protection mode info | | Not Present | | TCR1-006 |
| Ciphering mode info | | Not Present | | TCR1-007 |
| Activation time | A1, A2, A3 | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ | | TCR1-008 |
| Activation time | A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR1-009 |
| Delay restriction flag | | Not Present | Rel-6 | TCR1-010 |
| New U-RNTI | | Not Present | | TCR1-011 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | | TCR1-012 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | TCR1-013 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR1-014 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | TCR1-015 |
| CHOICE <i>mode</i> | | TDD | Rel-7 | TCR1-016 |
| - New E-RNTI | | Not Present | Rel-7 | TCR1-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | TCR1-018 |
| RRC State indicator | A5, A6 | CELL_FACH | | TCR1-019 |
| RRC State indicator | A7, A8 | URA_PCH | | TCR1-020 |
| RRC State indicator | A9, A10 | CELL_PCH | | TCR1-021 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | TCR1-022 |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | | TCR1-023 |
| CN information info | | Not Present | | TCR1-024 |
| URA identity | | Not Present | | TCR1-025 |
| RNC support for change of UE capability | | Not Present | Rel-7 | TCR1-025a |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 | TCR1-025b |
| Downlink counter synchronization info | | Not Present | | TCR1-026 |
| UL Transport channel information for all transport channels | A1, A2, A5, A6 | Not Present | | TCR1-027 |
| UL Transport channel information for all transport channels | A3, A4 | | | TCR1-028 |
| - PRACH TFCS | | Not Present | | TCR1-029 |
| - CHOICE <i>mode</i> | | TDD | | TCR1-030 |
| - Individual UL CCTrCH information | | | | TCR1-031 |
| - UL TFCS Identity | | | | TCR1-032 |
| - TFCS ID | | 1 | | TCR1-033 |
| - Shared Channel Indicator | | FALSE | | TCR1-034 |
| - UL TFCS | | | | TCR1-035 |
| - CHOICE <i>TFCI signalling</i> | | Normal | | TCR1-036 |
| - TFCI Field 1 Information | | | | TCR1-037 |
| - CHOICE <i>TFCS representation</i> | | Complete reconfiguration | | TCR1-038 |
| - TFCS complete reconfiguration information | | | | TCR1-039 |
| - CHOICE <i>CTFC Size</i> | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | TCR1-040 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause | | TCR1-041 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------|---|---------|----------|
| - CTFC | | 6.11.5.4 Parameter Set Reference to clause 6.11.5.4 Parameter Set | | TCR1-042 |
| - Power offset information | | | | TCR1-043 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | TCR1-044 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR1-045 |
| - CHOICE Gain Factors | | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | TCR1-046 |
| - CHOICE mode | | TDD | | TCR1-047 |
| - Gain Factor β_d | | 15 | | TCR1-048 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR1-049 |
| - CHOICE mode | | TDD | | TCR1-050 |
| - TFC subset | | | | TCR1-051 |
| - CHOICE Subset representation | | Full transport format combination set | | TCR1-052 |
| - TFC subset list | | Not Present | | TCR1-053 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | TCR1-054 |
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR1-055 |
| - Added or Reconfigured UL TrCH information | | | | TCR1-056 |
| - Uplink transport channel type | | DCH | | TCR1-057 |
| - UL Transport channel identity | | 5 | | TCR1-058 |
| - TFS | | | | TCR1-059 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR1-060 |
| - Dynamic Transport format information | | | | TCR1-061 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | TCR1-062 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR1-063 |
| - Transmission Time Interval | | Not Present | | TCR1-064 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | TCR1-065 |
| - CHOICE Logical channel list | | All | | TCR1-066 |
| - Semi-static Transport Format information | | | | TCR1-067 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | TCR1-068 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | TCR1-069 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | TCR1-070 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | TCR1-071 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | TCR1-072 |
| - Uplink transport channel type | | DCH | | TCR1-073 |
| - UL Transport channel identity | | 1 | | TCR1-074 |
| - TFS | | | | TCR1-075 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR1-076 |
| - Dynamic Transport format information | | | | TCR1-077 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | TCR1-078 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR1-079 |
| - Transmission Time Interval | | Not Present | | TCR1-080 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | TCR1-081 |
| - CHOICE Logical channel list | | All | | TCR1-082 |
| - Semi-static Transport Format information | | | | TCR1-083 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | TCR1-084 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | TCR1-085 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | TCR1-086 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|---|---------|----------|
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | TCR1-087 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | TCR1-088 |
| Added or Reconfigured TrCH information list | A3 | (DCH for DTCH) | | TCR1-089 |
| - Added or Reconfigured UL TrCH information | | | | TCR1-090 |
| - Uplink transport channel type | | DCH | | TCR1-091 |
| - UL Transport channel identity | | 1 | | TCR1-092 |
| - TFS | | | | TCR1-093 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR1-094 |
| - Dynamic Transport format information | | | | TCR1-095 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | TCR1-096 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | TCR1-097 |
| - Transmission Time Interval | | Not Present | | TCR1-098 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | TCR1-099 |
| - CHOICE Logical channel list | | All | | TCR1-100 |
| - Semi-static Transport Format information | | | | TCR1-101 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | TCR1-102 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | TCR1-103 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | TCR1-104 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | TCR1-105 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | TCR1-106 |
| CHOICE <i>mode</i> | A1,A2,A3,A4,A 5,A6 | TDD | | TCR1-107 |
| Downlink HS-PDSCH Information | | | Rel-5 | TCR1-108 |
| DL Transport channel information common for all transport channels | A1, A2, A5,A6 | Not Present | | TCR1-109 |
| DL Transport channel information common for all transport channel | A3,A4 | | | TCR1-110 |
| - SCCPCH TFCS | | Not Present | | TCR1-111 |
| - CHOICE mode | | TDD | | TCR1-112 |
| - Individual DL CCTrCH information | | | | TCR1-113 |
| - DL TFCS Identity | | | | TCR1-114 |
| - TFCS ID | | 2 | | TCR1-115 |
| - Shared Channel Indicator | | FALSE | | TCR1-116 |
| - CHOICE DL parameters | | Independent | | TCR1-117 |
| - DL TFCS | | | | TCR1-118 |
| - CHOICE TFCI Signalling | | Normal | | TCR1-119 |
| - TFCI Field 1 Information | | | | TCR1-120 |
| - CHOICE TFCS representation | | Complete reconfiguration | | TCR1-121 |
| - TFCS complete reconfiguration | | | | TCR1-122 |
| information | | | | |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | TCR1-123 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 | | TCR1-124 |
| - CTFC | | Reference to clause 6.11.5.4 Parameter Set | | TCR1-125 |
| - Power offset information | | Not Present | | TCR1-126 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | TCR1-127 |
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR1-128 |
| - Added or Reconfigured DL TrCH information | | | | TCR1-129 |
| - Downlink transport channel type | | DCH | | TCR1-130 |
| - DL Transport channel identity | | 10 | | TCR1-131 |
| - CHOICE DL parameters | | Same as UL | | TCR1-132 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|---|---------|----------|
| <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | DCH | | TCR1-133 |
| | | 5 | | TCR1-134 |
| | | | | TCR1-135 |
| | | -20 (-2.0) | | TCR1-136 |
| | | Not Present | | TCR1-137 |
| | | DCH | | TCR1-138 |
| | | 6 | | TCR1-139 |
| | | Explicit | | TCR1-140 |
| | | | | TCR1-141 |
| | | Dedicated transport channels | | TCR1-142 |
| | | | | TCR1-143 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-144 |
| | | (This IE is repeated for TF number.) | | TCR1-145 |
| | | Not Present | | TCR1-146 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-147 |
| | | TCR1-148 | | |
| Reference to clause 6.11 Parameter Set | | TCR1-149 | | |
| | | TCR1-150 | | |
| Reference to clause 6.11 Parameter Set | | TCR1-151 | | |
| Reference to clause 6.11 Parameter Set | | TCR1-152 | | |
| Reference to clause 6.11 Parameter Set | | TCR1-153 | | |
| | | TCR1-154 | | |
| | | TCR1-155 | | |
| Added or Reconfigured TrCH information list | A3 | -20 (-2.0) | | TCR1-156 |
| <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info | | DCH | | TCR1-157 |
| | | 6 | | TCR1-158 |
| | | Explicit | | TCR1-159 |
| | | | | TCR1-160 |
| | | Dedicated transport channels | | TCR1-161 |
| | | | | TCR1-162 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-163 |
| | | | | TCR1-164 |
| | | (This IE is repeated for TF number.) | | TCR1-165 |
| | | Not Present | | TCR1-166 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-167 |
| | | | | TCR1-168 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-169 |
| | | | | TCR1-170 |
| | | Reference to clause 6.11 Parameter Set | | TCR1-171 |
| Reference to clause 6.11 Parameter Set | | TCR1-172 | | |
| Reference to clause 6.11 Parameter Set | | TCR1-173 | | |
| | | TCR1-174 | | |
| | | TCR1-175 | | |
| | | TCR1-176 | | |
| Frequency info | A1, A2, A3, A4, A5 | -20 (-2.0) | | TCR1-177 |
| | | Not Present | | |
| - Choice mode | | TDD | | TCR1-178 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | | TCR1-179 |
| Frequency info | A6, A7, A8, A9, A10 | Not Present | | TCR1-180 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-------------------------|-------------------------------------|---------|-----------|
| Multi-frequency Info | | Not Present | Rel-7 | TCR1-180a |
| Control Channel DRX information | | Not Present | Rel-8 | TCR1-181 |
| SPS Information | | Not Present | Rel-8 | TCR1-182 |
| MIMO parameters | | Not Present | Rel-8 | TCR1-183 |
| MU-MIMO info | | Not Present | Rel-10 | TCR1-183a |
| Maximum allowed UL TX power | | 33dBm | | TCR1-184 |
| CHOICE <i>channel requirement</i> | A5, A6, A7, A8, A9, A10 | Not Present | | TCR1-185 |
| CHOICE <i>channel requirement</i> | A1, A2, A3, A4 | Uplink DPCH info | | TCR1-186 |
| - Uplink DPCH power control info | | TDD | Rel-4 | TCR1-187 |
| - CHOICE mode | | 25 dB | Rel-4 | TCR1-188 |
| - UL target SIR | | Individually Signalled | | TCR1-189 |
| - CHOICE UL OL PC info | | 1.28 Mcps TDD | | TCR1-191 |
| - CHOICE TDD option | | 1 | | TCR1-192 |
| - TPC step size | | 20 Integer(6..43) | | TCR1-193 |
| - Primary CCPCH Tx Power | | TDD | | TCR1-194 |
| - CHOICE mode | | Enabled | | TCR1-195 |
| - Uplink Timing Advance Control | | 1.28 Mcps TDD | | TCR1-196 |
| - CHOICE Timing Advance | | 1 | | TCR1-197 |
| - CHOICE TDD option | | 1 | | TCR1-198 |
| - Uplink synchronization parameters | | | | TCR1-199 |
| - Uplink synchronization step size | | 1 | | TCR1-200 |
| - Uplink synchronization frequency | | 1 | | TCR1-201 |
| - Synchronization parameters | | | | TCR1-202 |
| - SYNC_UL codes bitmap | | 01010101 | | TCR1-203 |
| - FPACH info | | 0 | | TCR1-204 |
| - Timeslot number | | 16/15 | | TCR1-205 |
| - Channelisation code | | | | TCR1-206 |
| - Midamble Shift and burst type | | | | TCR1-207 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | TCR1-208 |
| - Midamble Allocation Mode | | Default midamble | | TCR1-209 |
| - Midamble configuration | | 4 (k=8) | | TCR1-210 |
| - WT | | 4 Integer(1..4) | | TCR1-211 |
| - PRXUpPCHdes | | -80 dBm | | TCR1-212 |
| - SYNC_UL procedure | | | | TCR1-213 |
| - Max SYNC_UL Transmissions | | 2 | | TCR1-214 |
| - Power Ramp Step | | 2 | | TCR1-215 |
| - UL CCTrCH List | | 1 | | TCR1-216 |
| - TFCS ID | | 25 dB | | TCR1-217 |
| - UL Target SIR | | | | TCR1-218 |
| - Time info | | | | TCR1-219 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | TCR1-220 |
| - Duration | | Infinite | | TCR1-221 |
| - Common timeslot info | | | | TCR1-222 |
| - 2 nd interleaving mode | | Default value is "Frame" | | TCR1-223 |
| - TFCI coding | | Reference to clause 6 Parameter set | | TCR1-224 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | TCR1-225 |
| - Repetition period | | 1 | | TCR1-226 |
| - Repetition length | | | | TCR1-227 |
| - Uplink DPCH timeslots and code | | FALSE | | TCR1-228 |
| - Dynamic SF usage | | | | TCR1-229 |
| - First individual timeslot info | | | | TCR1-230 |
| - Timeslot number | | | | TCR1-231 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | TCR1-232 |
| - Timeslot number | | 1 OR 2 OR 3 | | TCR1-233 |
| - TFCI existence | | TRUE | | TCR1-234 |
| - Midamble shift and burst type | | | | TCR1-235 |
| - CHOICE TDD option | | 1.28 Mcps TTD | | TCR1-236 |
| - Midamble allocation mode | | Default midamble | | TCR1-237 |
| - Midamble configuration | | 8 (k=16) | | TCR1-238 |
| - Midamble Shift | | Not Present | | TCR1-239 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | TCR1-240 |
| - Modulation | | QPSK | | TCR1-241 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|---------|----------|
| <ul style="list-style-type: none"> - SS-TPC Symbols - Additional TPC-SS Symbols - First timeslot Code List | | 1 | | TCR1-242 |
| | | Not present | | TCR1-243 |
| <ul style="list-style-type: none"> - channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | TCR1-244 |
| | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | TCR1-245 |
| <ul style="list-style-type: none"> - CHOICE more timeslots - UL CCTrCH List to Remove | | No more timeslots | | TCR1-246 |
| | | Not present | | TCR1-247 |
| E-DCH Info | | Not Present | Rel-7 | TCR1-248 |
| Multi-carrier E-DCH Info for LCR TDD | | Not Present | Rel-10 | |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TDD | | |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR1-249 |
| Downlink information common for all radio links | | | | TCR1-250 |
| | | | | TCR1-251 |
| - Downlink DPCH info common for all RL | | Maintain | | TCR1-252 |
| - Timing indication | | Not Present | | TCR1-253 |
| - CFN-targetSFN frame offset | | | | TCR1-254 |
| - Downlink DPCH power control information | | | | TCR1-255 |
| - CHOICE mode | | TDD | | TCR1-256 |
| - TPC Step Size | | 1 | | TCR1-257 |
| - MAC-d HFN initial value | | Not Present | | TCR1-258 |
| - CHOICE mode | | TDD | | TCR1-259 |
| - CHOICE mode | | TDD | | TCR1-260 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | TCR1-261 |
| - TSTD indicator | | FALSE | | TCR1-262 |
| - Default DPCH Offset Value | | Not Present | | TCR1-263 |
| Downlink information common for all radio links | A4 | | | TCR1-264 |
| - Downlink DPCH info common for all RL | | | | TCR1-265 |
| - Timing indication | | Initialize | | TCR1-266 |
| - CFN-targetSFN frame offset | | Not Present | | TCR1-267 |
| - Downlink DPCH power control information | | TDD | | TCR1-268 |
| - CHOICE mode | | 1 | | TCR1-269 |
| - TPC Step Size | | Not Present | | TCR1-270 |
| - MAC-d HFN initial value | | | | TCR1-271 |
| - CHOICE mode | | TDD | | TCR1-272 |
| - CHOICE mode | | TDD | | TCR1-273 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | TCR1-274 |
| - TSTD indicator | | FALSE | | TCR1-275 |
| - Default DPCH Offset Value | | | | TCR1-276 |
| - CHOICE mode | | TDD | | TCR1-277 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | TCR1-278 |
| Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 | Not Present | | |
| Downlink information per radio link list | A1, A2, A3 | | | TCR1-279 |
| - Downlink information for each radio link | | | | TCR1-280 |
| - Choice mode | | TDD | | TCR1-281 |
| - Primary CCPCH info | | | | TCR1-282 |
| - Choice mode | | TDD | | TCR1-283 |
| - Choice TDD Option | | 1.28 Mcps TDD | | TCR1-284 |
| - TSTD indicator | | FALSE | | TCR1-285 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | TCR1-286 |
| - SCTD indicator | | FALSE | | TCR1-287 |
| - Downlink DPCH info for each RL | | | | TCR1-288 |
| - CHOICE mode | | TDD | | TCR1-289 |
| - DL CCTrCh List | | | | TCR1-290 |
| - TFCS ID | | 2 Integer(1.8) | | TCR1-291 |
| - Time info | | | | TCR1-292 |
| - Activation time | | Now | | TCR1-293 |
| - Duration | | Infinite | | TCR1-294 |
| | | | | TCR1-295 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|--------------------|----------|
| <ul style="list-style-type: none"> - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option <ul style="list-style-type: none"> - Modulation - SS-TPC Symbols - Additional TPC-SS Symbols - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator | | Default value is "Frame" | | TCR1-296 |
| | | Reference to clause 6 Parameter set | | TCR1-297 |
| | | Reference to clause 6 Parameter set | | TCR1-298 |
| | | Reference to clause 6 Parameter set | | TCR1-299 |
| | | 1 | | TCR1-300 |
| | | NULL | | TCR1-301 |
| | | | | TCR1-302 |
| | | | | TCR1-303 |
| | | 1.28 Mcps TDD | | TCR1-304 |
| | | 4 OR 5 OR 6 | | TCR1-305 |
| | | TRUE | | TCR1-306 |
| | | | | TCR1-307 |
| | | | | TCR1-308 |
| | | 1.28 Mcps TDD | | TCR1-309 |
| | | Default midamble | | TCR1-310 |
| | | 8 (k=16) | | TCR1-311 |
| | | Not Present | | TCR1-312 |
| | | 1.28 Mcps TDD | | TCR1-313 |
| | | QPSK | | TCR1-314 |
| | | 1 | | TCR1-315 |
| | | Not present | | TCR1-316 |
| | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | TCR1-317 |
| | | | | TCR1-318 |
| Reference to clause 6.11 Parameter Set | | TCR1-319 | | |
| No more timeslots | | TCR1-320 | | |
| This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | TCR1-321 | | |
| 1 | | TCR1-322 | | |
| FALSE | | TCR1-323 | | |
| | | TCR1-324 | | |
| <ul style="list-style-type: none"> - DL CCTrCH List to Remove - SCCPCH Information for FACH Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - TSTD indicator - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info <ul style="list-style-type: none"> - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info | A4 | Not present | R99 and Rel-4 only | TCR1-325 |
| | | Not Present | | TCR1-326 |
| | | | | TCR1-327 |
| | | TDD | | TCR1-328 |
| | | | | TCR1-329 |
| | | TDD | | TCR1-330 |
| | | 1.28 Mcps TDD | | TCR1-331 |
| | | FALSE | | TCR1-332 |
| | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | TCR1-333 |
| | | FALSE | | TCR1-334 |
| | | | | TCR1-335 |
| | | | | TCR1-336 |
| | | TDD | | TCR1-337 |
| | | | | TCR1-338 |
| | | 2 Integer(1.8) | | TCR1-339 |
| | | | | TCR1-340 |
| | | Now | | TCR1-341 |
| | | Infinite | | TCR1-342 |
| | | | | TCR1-343 |
| | | Default value is "Frame" | | TCR1-344 |
| | | Reference to clause 6 Parameter set | | TCR1-345 |
| | | Reference to clause 6 Parameter set | | TCR1-346 |
| | | 1 | | TCR1-347 |
| NULL | TCR1-348 | | | |
| | TCR1-349 | | | |
| | TCR1-350 | | | |

| Information Element | Condition | Value/remark | Version | Index | | |
|--|-----------|---|--|--|--|----------|
| <ul style="list-style-type: none"> - Timeslot number - CHOICE TDD option <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration <ul style="list-style-type: none"> - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Symbols - First timeslot channelisation codes | A5 | 1.28 Mcps TDD 4 OR 5 OR 6 TRUE | | TCR1-351 TCR1-352 TCR1-353 TCR1-354 TCR1-355 TCR1-356 TCR1-357 TCR1-358 TCR1-359 TCR1-360 TCR1-361 TCR1-362 TCR1-363 | | |
| | | <ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap | Reference to clause 6.11 Parameter Set | | TCR1-364 TCR1-365 | |
| | | <ul style="list-style-type: none"> - CHOICE more timeslots - UL CCTrCH TPC List | No more timeslots This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | TCR1-366 TCR1-367 | |
| | | <ul style="list-style-type: none"> - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator | 1 FALSE | | TCR1-368 TCR1-369 TCR1-370 TCR1-371 | |
| | | <ul style="list-style-type: none"> - DL CCTrCH List to Remove - SCCPCH Information for FACH | Not present Not Present | | TCR1-372 | |
| | | <ul style="list-style-type: none"> - E-AGCH Info - CHOICE <i>mode</i> <ul style="list-style-type: none"> - E-HICH Information | Not Present TDD Not Present | R99 and Rel-4 only Rel-6 Rel-7 Rel-7 | TCR1-373 TCR1-374 TCR1-375 TCR1-376 | |
| | | Downlink information per radio link list | | | | TCR1-377 |
| | | <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode | TDD | | TCR1-378 TCR1-379 | |
| | | <ul style="list-style-type: none"> - Primary CCPCH info - Choice mode | TDD | | TCR1-380 | |
| | | <ul style="list-style-type: none"> - Choice TDD Option - TSTD indicator - Cell parameters ID | 1.28 Mcps TDD FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | TCR1-381 TCR1-382 TCR1-383 TCR1-384 | |
| | | <ul style="list-style-type: none"> - SCTD indicator - Downlink DPCH info for each RL - SCCPCH Information for FACH | FALSE Not Present Not Present | | TCR1-385 TCR1-386 | |
| | | <ul style="list-style-type: none"> - E-AGCH Info - CHOICE <i>mode</i> <ul style="list-style-type: none"> - E-HICH Information | Not Present TDD Not Present Not Present | R99 and Rel-4 only Rel-6 Rel-7 Rel-7 | TCR1-387 TCR1-388 TCR1-389 TCR1-390 | |
| | | Downlink information per radio link list | A6, A7, A8, A9, A10 | | | TCR1-391 |
| | | MBMS PL Service Restriction Information | | Not Present | Rel-6 | TCR1-392 |
| CELL_DCH measurement occasion info LCR | | Not Present | Rel-9 | TCR1-392a | | |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|---------|----------------------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | | TCR3-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | TCR3-002 |
| Integrity check info - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | TCR3-003 TCR3-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | TCR3-005 |
| Integrity protection mode info | | Not Present | | TCR3-006 |
| Ciphering mode info | | Not Present | | TCR3-007 |
| Activation time | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | TCR3-008 |
| Activation time | A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR3-009 |
| New U-RNTI | | Not Present | | TCR3-010 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | | TCR3-011 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | TCR3-012 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | TCR3-013 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | TCR3-014 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | TCR3-015 |
| RRC State indicator | A5, A6 | CELL_FACH | | TCR3-016 |
| RRC State indicator | A7, A8 | URA_PCH | | TCR3-017 |
| RRC State indicator | A9, A10 | CELL_PCH | | TCR3-018 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | TCR3-019 |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | | TCR3-020 |
| CN information info | | Not Present | | TCR3-021 |
| URA identity | | Not Present | | TCR3-022 |
| Downlink counter synchronisation info | | Not Present | | TCR3-023 |
| UL Transport channel information common for all transport channels | A1, A2, A5, A6 | Not Present | | TCR3-024 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|---|---------|----------|
| UL Transport channel information common for all transport channels | A3, A4 | | | TCR3-025 |
| - PRACH TFCS | | Not Present | | TCR3-026 |
| - CHOICE mode | | TDD | | TCR3-027 |
| - Individual UL CCTrCH information | | | | TCR3-028 |
| - UL TFCS Identity | | 1 | | TCR3-029 |
| - TFCS ID | | FALSE | | TCR3-030 |
| - Shared Channel Indicator | | | | TCR3-031 |
| - UL TFCS | | Normal | | TCR3-032 |
| - CHOICE <i>TFCI signalling</i> | | | | TCR3-033 |
| - TFCI Field 1 Information | | Complete reconfiguration | | TCR3-034 |
| - CHOICE <i>TFCS representation</i> | | | | TCR3-035 |
| - TFCS complete reconfiguration information | | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. | | TCR3-036 |
| - CHOICE <i>CTFC Size</i> | | | | TCR3-037 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11 Parameter Set | | TCR3-038 |
| - CTFC | | Reference to TS34.108 clause 6. 11 Parameter Set | | TCR3-039 |
| - Power offset information | | | | TCR3-040 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | TCR3-041 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR3-042 |
| - CHOICE Gain Factors | | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | TCR3-043 |
| - CHOICE mode | | TDD | | TCR3-044 |
| - Gain Factor β_d | | 15 | | TCR3-045 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | TCR3-046 |
| - CHOICE mode | | TDD | | TCR3-047 |
| - TFC subset | | | | TCR3-048 |
| - CHOICE Subset representation | | Full transport format combination set | | TCR3-049 |
| - TFC subset list | | Not Present | | TCR3-050 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------|---|---------|----------|
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR3-052 |
| - Added or Reconfigured UL TrCH information | | | | TCR3-053 |
| - Uplink transport channel type | | DCH | | TCR3-054 |
| - UL Transport channel identity | | 5 | | TCR3-055 |
| - TFS | | | | TCR3-056 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-057 |
| - Dynamic Transport format information | | | | TCR3-058 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-059 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR3-060 |
| - Transmission Time Interval | | Not Present | | TCR3-061 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-062 |
| - CHOICE Logical Channel list | | All | | TCR3-063 |
| - Semi-static Transport Format information | | | | TCR3-064 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-065 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-066 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-067 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-068 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-069 |
| - Uplink transport channel type | | DCH | | TCR3-070 |
| - UL Transport channel identity | | 1 | | TCR3-071 |
| - TFS | | | | TCR3-072 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-073 |
| - Dynamic Transport format information | | | | TCR3-074 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-075 |
| - Number of TBs and TTI List | | This IE is repeated for maxTF number | | TCR3-076 |
| - Transmission Time Interval | | Not Present | | TCR3-077 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-078 |
| - CHOICE Logical Channel list | | All | | TCR3-079 |
| - Semi-static Transport Format information | | | | TCR3-080 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-081 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-082 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-083 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-084 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-085 |
| Added or Reconfigured TrCH information list | A3 | (DCH for DTCH) | | TCR3-086 |
| - Added or Reconfigured UL TrCH information | | | | TCR3-087 |
| - Uplink transport channel type | | DCH | | TCR3-088 |
| - UL Transport channel identity | | 1 | | TCR3-089 |
| - TFS | | | | TCR3-090 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-091 |
| - Dynamic Transport format information | | | | TCR3-092 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-093 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | TCR3-094 |
| - Transmission Time Interval | | Not Present | | TCR3-095 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-096 |
| - CHOICE Logical Channel list | | All | | TCR3-097 |
| - Semi-static Transport Format information | | | | TCR3-098 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------|---|---------|----------|
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-099 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-100 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-101 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-102 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-103 |
| CHOICE <i>mode</i> | A1,A2,A3, A4,A5,A6 | TDD | | TCR3-104 |
| Downlink HS-PDSCH Information | | | Rel-5 | TCR3-105 |
| DL Transport channel information common for all transport channels | A1, A2, A5,A6 | Not Present | | TCR3-106 |
| DL Transport channel information common for all transport channels | A3,A4 | | | TCR3-107 |
| - SCCPCH TFCS | | Not Present | | TCR3-108 |
| - CHOICE <i>mode</i> | | TDD | | TCR3-109 |
| - Individual DL CCTrCH information | | | | TCR3-110 |
| - DL TFCS Identity | | | | TCR3-111 |
| - TFCS ID | | 2 | | TCR3-112 |
| - Shared Channel Indicator | | FALSE | | TCR3-113 |
| - CHOICE DL parameters | | Independent | | TCR3-114 |
| - DL TFCS | | | | TCR3-115 |
| - CHOICE TFCI Signalling | | Normal | | TCR3-116 |
| - TFCI Field 1 Information | | | | TCR3-117 |
| - CHOICE TFCS representation | | Complete reconfiguration | | TCR3-118 |
| - TFCS complete reconfiguration information | | | | TCR3-119 |
| - CHOICE CTFC Size | | | | TCR3-120 |
| - CTFC information | | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6. 11Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11 | | TCR3-121 |
| - CTFC | | Reference to TS34.108 clause 6. 11 Parameter Set | | TCR3-122 |
| - Power offset information | | Not Present | | TCR3-123 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present | | TCR3-124 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------|---|---------|----------|
| Added or Reconfigured TrCH information list | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | TCR3-125 |
| - Added or Reconfigured DL TrCH information | | | | TCR3-126 |
| - Downlink transport channel type | | DCH | | TCR3-127 |
| - DL Transport channel identity | | 10 | | TCR3-128 |
| - CHOICE DL parameters | | Same as UL | | TCR3-129 |
| - Uplink transport channel type | | DCH | | TCR3-130 |
| - UL TrCH identity | | 5 | | TCR3-131 |
| - DCH quality target | | | | TCR3-132 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-133 |
| - Transparent mode signalling info | | Not Present | | TCR3-134 |
| - Downlink transport channel type | | DCH | | TCR3-135 |
| - DL Transport channel identity | | 6 | | TCR3-136 |
| - CHOICE DL parameters | | Explicit | | TCR3-137 |
| - TFS | | | | TCR3-138 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-139 |
| - Dynamic transport format information | | | | TCR3-140 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-141 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | TCR3-142 |
| - Transmission Time Interval | | Not Present | | TCR3-143 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-144 |
| - Semi-static Transport Format information | | | | TCR3-145 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-146 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-147 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-148 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-149 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-150 |
| - DCH quality target | | | | TCR3-151 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-152 |
| Added or Reconfigured TrCH information list | A3 | | | TCR3-153 |
| - Added or Reconfigured DL TrCH information | | | | TCR3-154 |
| - Downlink transport channel type | | DCH | | TCR3-155 |
| - DL Transport channel identity | | 6 | | TCR3-156 |
| - CHOICE DL parameters | | Explicit | | TCR3-157 |
| - TFS | | | | TCR3-158 |
| - CHOICE Transport channel type | | Dedicated transport channels | | TCR3-159 |
| - Dynamic transport format information | | | | TCR3-160 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-161 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | TCR3-162 |
| - Transmission Time Interval | | Not Present | | TCR3-163 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-164 |
| - Semi-static Transport Format information | | | | TCR3-165 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-166 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-167 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-168 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-169 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-170 |
| - DCH quality target | | | | TCR3-171 |
| - BLER Quality value | | -20 (-2.0) | | TCR3-172 |
| - Transparent mode signalling info | | Not Present | | TCR3-173 |
| Frequency info | A1, A2, A3, | | | TCR3-174 |

| Information Element | Condition | Value/remark | Version | Index | | | | | | |
|--|--|--|---------|--|--|--|--|-------|--|--------------------------------------|
| <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6.11 Parameter Set. No more timeslots Not present TDD | Rel-7 | TCR3-220 TCR3-221 TCR3-222 TCR3-223 TCR3-224 TCR3-225 TCR3-226 TCR3-227 TCR3-228 | | | | | | |
| | | - Downlink PDSCH information Downlink HS-PDSCH Information | | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | No data Not Present | TCR3-229 TCR3-230 | | | | |
| | | Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information | | A1, A2, A3 | Maintain Not Present | TCR3-231 TCR3-232 TCR3-233 TCR3-234 TCR3-235 | | | | |
| | | <ul style="list-style-type: none"> - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value | | A4 | TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present | Rel-4 Rel-7 | TCR3-236 TCR3-237 TCR3-238 TCR3-239 TCR3-240 TCR3-241 TCR3-242 TCR3-243 TCR3-244 TCR3-245 TCR3-246 TCR3-247 TCR3-248 TCR3-249 TCR3-250 TCR3-251 TCR3-252 TCR3-253 TCR3-254 | | | |
| | | | | | - CHOICE mode - Default DPCH Offset Value Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 A1, A2, A3 | TDD 0 Integer(0..7) Not Present | Rel-7 | TCR3-255 TCR3-256 TCR3-257 | |
| | | | | | Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot | A1, A2, A3 | TDD TDD | | TCR3-258 TCR3-259 TCR3-260 TCR3-261 TCR3-262 | |
| | | | | | - Cell parameters ID | | TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE | | TCR3-263 TCR3-264 TCR3-265 | |
| | | | | | - SCTD indicator - Downlink DPCH info for each RL | | | | | TCR3-266 TCR3-267 TCR3-268 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| <ul style="list-style-type: none"> - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode | | 7.68Mcps TDD | Rel-7 | TCR3-269 |
| | | 2 Integer(1.8) | | TCR3-270 |
| <ul style="list-style-type: none"> - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes VHCR - First individual timeslot info - Timeslot number - CHOICE TDD option | | Reference to TS34.108 clause 6.11 Parameter set | Rel-7 | TCR3-277 |
| | | Reference to TS34.108 clause 6.11 Parameter set | | TCR3-278 |
| | | 1 | | TCR3-279 |
| | | NULL | | TCR3-280 |
| | | | | TCR3-281 |
| | | | | TCR3-282 |
| <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes VHCR | A4 | 7.68 Mcps TDD | Rel-7 | TCR3-284 |
| | | 4 OR 5 OR 6 | | TCR3-285 |
| <ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH | | TRUE | Rel-7 | TCR3-286 |
| | | 7.68 Mcps TDD | | TCR3-287 |
| | | Type 1 | | TCR3-288 |
| | | Default midamble | | TCR3-289 |
| | | 8 | | TCR3-290 |
| | | Not Present | | TCR3-291 |
| | | 7.68 Mcps TDD | | TCR3-292 |
| | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | TCR3-293 |
| | | Bitmap | | TCR3-294 |
| | | Reference to TS34.108 clause 6.11 Parameter Set | | TCR3-295 |
| | | No more timeslots | | TCR3-296 |
| | | Default (is previous list or all defined UL CCTrCHs.) | | TCR3-297 |
| <ul style="list-style-type: none"> - CHOICE mode - DL CCTrCh List - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH | | 1 | Rel-7 | TCR3-298 |
| | | FALSE | | TCR3-299 |
| | | Not present | | TCR3-300 |
| | | Not Present | | TCR3-301 |
| | | | | TCR3-302 |
| | | | | TCR3-303 |
| | | | | TCR3-304 |
| | | | | TCR3-305 |
| | | TDD | | TCR3-306 |
| | | TDD | | TCR3-307 |
| <ul style="list-style-type: none"> - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE <i>SyncCase</i> - Timeslot | | 7.68 Mcps TDD | Rel-7 | TCR3-308 |
| | | Sync Case 1 | | TCR3-309 |
| | | Reference clause 6.1.4 Default settings for cell 1 | | TCR3-310 |
| | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | | TCR3-311 |
| | | Integer(0..127) | | TCR3-312 |
| | | FALSE | | TCR3-313 |
| <ul style="list-style-type: none"> - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List | | TDD | Rel-7 | TCR3-314 |
| | | | | TCR3-315 |
| | | | | TCR3-316 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---------------------|--|--------------------|----------|
| <ul style="list-style-type: none"> - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes VHCR - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH | | 2 Integer(1.8) | | TCR3-317 |
| | | TCR3-318 | | |
| | | TCR3-319 | | |
| | | TCR3-320 | | |
| | | TCR3-321 | | |
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| TCR3-344 | | | | |
| TCR3-345 | | | | |
| TCR3-346 | | | | |
| TCR3-347 | | | | |
| TCR3-348 | | | | |
| TCR3-349 | | | | |
| Downlink information per radio link list | A5 | | R99 and Rel-4 only | TCR3-350 |
| - Downlink information for each radio link | | | | TCR3-351 |
| - Choice mode | | TDD | | TCR3-352 |
| - Primary CCPCH info | | | | TCR3-353 |
| - Choice mode | | TDD | | TCR3-354 |
| - Choice TDD Option | | 7.68 Mcps TDD | Rel-7 | TCR3-355 |
| - CHOICE <i>SyncCase</i> | | Sync Case 1 | | TCR3-356 |
| - Timeslot | | Reference clause 6.1.4 Default settings for cell 1 | | TCR3-357 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | | TCR3-358 |
| - SCTD indicator | | Integer(0..127) | | TCR3-359 |
| - Downlink DPCH info for each RL | | FALSE | | TCR3-360 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | TCR3-361 |
| Downlink information per radio link list | A6, A7, A8, A9, A10 | Not Present | | TCR3-362 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type | | |
| RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked | |
| CHOICE mode | TDD | |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-4 |
| - Uplink Timing Advance | 0 | |
| COUNT-C activation time | Not checked | |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronisation info | Not checked | |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type | | |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked | |
| CHOICE mode | TDD | |
| CHOICE TDD option | 1.28 Mcps TDD | Rel-4 |
| COUNT-C activation time | Not checked | Rel-4 |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronization info | Not checked | |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type | | |
| RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked | |
| CHOICE mode | TDD | |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 |
| - Extended Uplink Timing Advance | 0 | Rel-7 |
| COUNT-C activation time | Not checked | |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronisation info | Not checked | |

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

| Information Element | Value/remark |
|---|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| CHOICE mode | TDD |
| - TFCS Id | 1 |
| - TFCS ID | FALSE |
| - Shared Channel Indicator | |
| DPCH/PUSCH TFCS in uplink | |
| - CHOICE <i>Subset representation</i> | Allowed transport format combination list |
| - Allowed transport format combination list | 0 (The TFC is constructed from ALL TF0) |
| Activation time for TFC subset | Now |
| TFC Control duration | Not Present |

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

| Information Element | Value/remark |
|----------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |

| | |
|-------------------------------|--|
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of RRC CONNECTION REJECT message: UM

| Information Element | Value/remark |
|----------------------------|--|
| Message Type | Arbitrarily selects an integer between 0 and 3 |
| RRC transaction identifier | |
| Initial UE identity | |
| Rejection cause | Unspecified |
| Wait Time | 0 |
| Redirection info | Not Present |

Contents of CELL UPDATE message: TM

| Information Element | Value/remark |
|---|--|
| Message Type | Checked to see if it is set to the following values |
| U-RNTI | |
| - SRNC identity | 0000 0000 0001B |
| - S-RNTI | 0000 0000 0000 0000 0001B |
| RRC transaction identifier | Checked to see if it is absent |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| START List | Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE |
| - CN domain identity | Checked to see if it is one of the supported CN domains |
| - START | Checked to see if it is present |
| AM_RLC error indication (RB2, RB3 or RB4) | Checked to see if it is set to 'FALSE' |
| AM_RLC error indication (RB>4) | Checked to see if it is set to 'FALSE' |
| Cell update cause | See the test content |
| Failure cause | Checked to see if it is absent |
| RB timer indicator | Checked to see if it is set to 'FALSE' |
| - T314 expired | |
| - T315 expired | Checked to see if it is set to 'FALSE' |
| Measured results on RACH | Not checked |

Contents of CELL UPDATE CONFIRM message: UM

| Information Element | Value/remark | Version |
|--------------------------------|--|---------|
| Message Type | If this message is sent on CCCH, use the following values. Else, this IE is absent. | |
| U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| RRC transaction identifier | Selects an arbitrary integer between 0 to 3 | |
| Integrity check info | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - Message authentication code | | |
| - RRC Message Sequence Number | Set to an arbitrarily selected integer between 0 and 15 | |
| Integrity protection mode info | Not Present | |
| Ciphering mode info | Not Present | |
| Activation time | Not Present - use default value | |

| | | |
|--|----------------------|--------------------|
| New U-RNTI | Not Present | |
| New C-RNTI | Not Present | |
| New DSCH-RNTI | Not Present | R99 and Rel-4 only |
| New H-RNTI | Not Present | Rel-5 |
| CHOICE <i>mode</i> | TDD | Rel-7 |
| - New E-RNTI | Not Present | Rel-7 |
| RRC State indicator | CELL_FACH | |
| UTRAN DRX cycle length coefficient | Not Present | |
| RLC re-establish indicator (RB2, RB3 and RB4) | FALSE | |
| RLC re-establish indicator (RB5 and upwards) | FALSE | |
| CN information info | Not Present | |
| URA identity | | |
| -URA identity | 0000 0000 0000 0001B | |
| RNC support for change of UE capability | Not Present | Rel-7 |
| RB information to release list | Not Present | |
| RB information to reconfigure list | Not Present | |
| RB information to be affected list | Not Present | |
| Downlink counter synchronization info | Not Present | |
| UL Transport channel information common for all transport channels | Not Present | |
| Deleted TrCH information list | Not Present | |
| Added or Reconfigured TrCH information list | Not Present | |
| CHOICE Mode | TDD | |
| DL Transport channel information common for all transport channels | Not Present | |
| Deleted TrCH information list | Not Present | |
| Added or Reconfigured TrCH information list | Not Present | |
| Frequency info | Not Present | |
| Multi-frequency Info | Not Present | Rel-7 |
| Control Channel DRX information | Not Present | Rel-8 |
| SPS Information | Not Present | Rel-8 |
| MIMO parameters | Not Present | Rel-8 |
| MU-MIMO info | Not Present | Rel-10 |
| Maximum allowed UL TX power | Not Present | |
| CHOICE channel requirement | Not Present | |
| E-DCH Info | Not Present | Rel-6 |
| Multi-carrier E-DCH Info for LCR TDD | Not Present | Rel-10 |
| CHOICE mode | TDD | |
| Downlink information common for all radio links | Not Present | |
| Downlink information per radio link list | Not Present | |
| MBMS PL Service Restriction Information | Not Present | Rel-6 |
| CELL_DCH measurement occasion info | Not Present | Rel-9 |
| LCR | | |

Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element | Value/remark |
|---------------------------------|---|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | |
| - Message authentication code | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I |
| - RRC Message sequence number | Set to an arbitrarily selected integer between 0 and 15 |
| Activation time | Not Present - use default value "now" |
| RAB info | For each RAB to be handed over. In this version, the maximum size of the list of 1 shall be applied for all system types. |
| - RAB identity | 0000 0001B |
| - CN domain identity | CS domain |
| - NAS Synchronization Indicator | Not present |
| - Re-establishment time | Use T315 |
| CHOICE <i>System type</i> | GSM |
| - Frequency band | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band" |

| Information Element | Value/remark |
|----------------------|--|
| - CHOIC GSM message | Single GSM message |
| - Single GSM message | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1..512). The first/ <i>leftmost/ most significant</i> bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element/Group name | Value/remark |
|------------------------------------|---|
| Message Type | |
| RRC transaction identifier | Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND - GSM message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ <i>leftmost</i> bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Inter-RAT handover failure | |
| - Inter-RAT handover failure cause | physical channel failure |
| - Protocol error information | Check to see if it is absent |
| Inter-system message | Not checked |

Contents of MEASUREMENT CONTROL Message: AM (Intra-frequency measurement) (1.28 Mcps TDD)

| Information Element | Value/remark |
|---|---|
| Message Type | |
| UE information elements | |
| RRC transaction identifier | Arbitrarily selects an unused integer between 0 to 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ <i>leftmost</i> bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Measurement information elements | |
| Measurement Identity | 1 |
| Measurement Command | Setup |
| Measurement Reporting Mode | |
| - Measurement Report Transfer Mode | Acknowledged mode RLC |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting |
| Additional measurement list | Not Present |
| CHOICE Measurement type | Intra-frequency measurement |
| - Intra-frequency measurement | |
| - Intra-frequency cell info list | |
| - CHOICE intra-frequency cell removal | Not present |
| - New intra-frequency cell | |
| - Intra-frequency cell-id | 1 |
| - Cell info | |
| - Cell individual offset | 0 (0dB) |
| - Reference time difference to cell | Not Present |
| - Read SFN number | FALSE |
| - CHOICE mode | TDD |
| - Primary CCPCH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| -TSTD indicator | FALSE |
| - Cell parameters ID | Reference clause 6.1.4 Default settings for cell 1(TDD) |
| - SCTD indicator | FALSE |
| - Primary CCPCH Tx power | Not present |
| - Timeslot list | Not present |
| - Cells for measurement | Not present |
| - Intra-frequency measurement quantity | |

| Information Element | Value/remark |
|--|---|
| - Filter coefficient | Not present (use default 0) |
| - CHOICE mode | TDD |
| - Measurement quantity list | |
| - Measurement quantity | Primary CCPCH RSCP |
| - Intra-frequency reporting quantity | |
| - Reporting quantities for active set cells | |
| - Cell synchronization information reporting indicator | FALSE |
| - Cell Identity reporting indicator | TRUE |
| - CHOICE mode | TDD |
| - Timeslot ISCP reporting indicator | FALSE |
| - Proposed TGSN reporting indicator | FALSE |
| - Primary CCPCH RSCP reporting indicator | FALSE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for monitored set cells | |
| - Cell synchronization information reporting indicator | FALSE |
| - Cell Identity reporting indicator | TRUE |
| - CHOICE mode | TDD |
| - Timeslot ISCP reporting indicator | FALSE |
| - Proposed TGSN reporting indicator | FALSE |
| - Primary CCPCH RSCP reporting indicator | FALSE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for detected set cells | Not present |
| - Reporting cell status | Not present |
| - Measurement validity | Not present |
| - CHOICE report criteria | Intra-frequency measurement reporting criteria |
| - Parameters required for each event | |
| - Intra-frequency event identity | 1g |
| - Triggering condition 1 | Not present (this IE is MP only for event "1b" or "1f", TDD should not present) |
| - Triggering condition 2 | Not present (this IE is MP only for event "1c", TDD should not present) |
| - Reporting Range Constant | Not present (this IE is MP only for event "1a" or "1b", TDD should not present) |
| - Cells forbidden to affect Reporting range | Not present (this IE is MP only for event "1a" or "1b", TDD should not present) |
| - W | Not present (this IE is MP only for event "1a" or "1b", TDD should not present) |
| - Hysteresis | 0 (0 dBm) |
| - Threshold used frequency | Not present (this IE is MP only for event "1e", "1f", "1h" or "1i") |
| - Reporting deactivation threshold | Not present (this IE is MP only for event "1a", TDD should not present) |
| - Replacement activation threshold | Not present (this IE is MP only for event "1c" TDD should not present) |
| - Time to trigger | 0 ms |
| - Amount of reporting | Not present (this IE is MP only for event "1a" or "1c" TDD should not present) |
| - Reporting interval | Not present (this IE is MP only for event "1a" or "1c", TDD should not present) |
| - Reporting cell status | Not present |
| Physical channel information elements | |
| DPCH Compressed mode status info | Not Present |

Contents of MEASUREMENT CONTROL Message: AM (Inter-frequency measurement) (1.28 Mcps TDD)

| Information Element | Value/remark |
|---------------------|--------------|
|---------------------|--------------|

| Information Element | Value/remark |
|--|--|
| Message Type | |
| UE information elements | |
| RRC transaction identifier | Arbitrarily selects an unused integer between 0 to 3 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Measurement information elements | |
| Measurement Identity | 2 |
| Measurement Command | Setup |
| Measurement Reporting Mode | |
| - Measurement Report Transfer Mode | Acknowledged mode RLC |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting |
| Additional measurement list | Not present |
| CHOICE Measurement type | Inter-frequency measurement |
| - Inter-frequency measurement | |
| - Inter-frequency cell info list | |
| - CHOICE inter-frequency cell removal | Not present |
| - New inter-frequency cell | |
| - Inter-frequency cell-id | 4 |
| - Frequency info | |
| - CHOICE mode | TDD |
| - UARFCN (Nt) | Reference to table 6.1.7 for cell 4 |
| - Cell info | |
| - Cell individual offset | 0 (0dB) |
| - Reference time difference to cell | Not Present |
| - Read SFN number | FALSE |
| - CHOICE mode | TDD |
| - Primary CCPCH info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| -TSTD indicator | FALSE |
| - Cell parameters ID | Reference clause 6.1.4 Default settings for cell 4(TDD) |
| - SCTD indicator | FALSE |
| - Primary CCPCH Tx power | Not present |
| - Timeslot list | Not present |
| - Cells for measurement | Not present |
| - Inter-frequency measurement quantity | |
| - CHOICE <i>reporting criteria</i> | Inter-frequency reporting criteria |
| - Inter-frequency reporting criteria | |
| - Filter coefficient | Not present (use default 0) |
| - CHOICE <i>mode</i> | TDD |
| - Measurement quantity for frequency quality estimate | Primary CCPCH RSCP |
| - Inter-frequency reporting quantity | |
| - UTRA Carrier RSSI | FALSE |
| - Frequency quality estimate | FALSE |
| - Non frequency related cell reporting quantities | This parameters is not used in this release and should be set to FALSE. It shall be ignored by the UE. |
| - Cell synchronization information reporting indicator | FALSE |
| - Cell Identity reporting indicator | FALSE |
| - CHOICE mode | TDD |
| - Timeslot ISCP reporting indicator | FALSE |
| - Proposed TGSN reporting indicator | FALSE |
| - Primary CCPCH RSCP reporting indicator | FALSE |
| - Pathloss reporting indicator | FASLE |
| - Reporting cell status | Not present |
| - Measurement validity | Not present |
| - Inter-frequency set update | Not present |
| - CHOICE report criteria | (this IE only for FDD) |
| - Parameters required for each event | Inter-frequency measurement reporting criteria |
| - Inter-frequency event identity | 2b |
| - Threshold used frequency | -70 dBm |

| Information Element | Value/remark |
|--|---|
| - W used frequency | (this IE is MP for event 2b, 2d, or 2f Ranges used depend on measurement quantity. CPICH Ec/No -24..0dB CPICH/Primary CCPCH RSCP -115..-25dBm) 0 (0) |
| - Hysteresis | (this IE is MP for event 2a, 2b, 2d or 2f Real(0, 0.1..2.0 by step of 0.1)) 2 (1 dBm) |
| - Time to trigger | 5 000 ms |
| - Reporting cell status | Within active set or within virtual active set or of the other RAT |
| - Maximum number of reporting cells | 1 |
| - Parameters required for each non-used frequency | |
| - Threshold non used frequency | -70 dBm |
| - W non-used frequency | (this IE is MP for event 2a, 2b, 2c or 2e Ranges used depend on measurement quantity. CPICH Ec/No -24..0dB CPICH/Primary CCPCH RSCP -115..-25dBm. This IE is not needed if the IE "Inter-frequency event identity" is set to 2a. However, it is specified to be mandatory to align with the ASN.1) 0 (0) |
| Physical channel information elements | (this IE is MP if 2a, 2b, 2c or 2e Real(0, 0.1..2.0 by step of 0.1)) |
| DPCH Compressed mode status info | Not Present |

Contents of MEASUREMENT CONTROL FAILURE Message: AM

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| RRC transaction identifier | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | See the test content |

Contents of MEASUREMENT REPORT message: AM Intra-frequency measurement (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type Integrity check info - Message authentication code - RRC Message sequence number Measurement identity Measured Results - Intra-frequency measured results - Cell measured results - Cell Identity - Cell synchronisation information - CHOICE mode - Cell parameters Id - Proposed TGSN - Primary CCPCH RSCP - Pathloss - Timeslot list Measured results on RACH Additional measured results Event results - CHOICE <i>event result</i> - Intra-frequency measurement event results - Intra-frequency event identity - Cell measurement event results - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE mode - CHOICE TDD option - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. 1 Checked that this IE is present Checked that this IE is absent TDD Different from the Default setting in TS34.108 clause 6.1 (TDD) Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Intra-frequency measurement event results Ig TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0) Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE | Rel-4 |

Contents of MEASUREMENT REPORT message: AM (intra-frequency measurement) (1.28 Mcps TDD)

| Information Element | Value/remark |
|--|---|
| Message Type Integrity check info - Message authentication code - RRC Message sequence number Measurement identity Measured Results - Intra-frequency measured results - Cell measured results - Cell Identity - Cell synchronization information - CHOICE mode - Cell parameters Id - Proposed TGSN - Primary CCPCH RSCP - Pathloss - Timeslot list Measured results on RACH Additional measured results | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. 1 Checked that this IE is present Checked that this IE is absent TDD Different from the Default setting in clause 6.1 (TDD) Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent |

| | |
|--|--|
| Event results - CHOICE <i>event result</i> - Intra-frequency measurement event results - Intra-frequency event identity - Cell measurement event results - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE TDD option -TSTD indicator - Cell parameters ID - SCTD indicator | Intra-frequency measurement event results Ig TDD TDD 1.28 Mcps TDD FALSE Reference in clause 6.1.4 Default settings for cell 1(TDD) FALSE |
|--|--|

Contents of MEASUREMENT REPORT message: AM Intra-frequency measurement (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type Integrity check info - Message authentication code - RRC Message sequence number Measurement identity Measured Results - Intra-frequency measured results - Cell measured results - Cell Identity - Cell synchronisation information - CHOICE <i>mode</i> - Cell parameters Id - Proposed TGSN - Primary CCPCH RSCP - Pathloss - Timeslot list Measured results on RACH Additional measured results Event results - CHOICE <i>event result</i> - Intra-frequency measurement event results - Intra-frequency event identity - Cell measurement event results - CHOICE <i>mode</i> - Primary CCPCH info - CHOICE <i>mode</i> - CHOICE TDD option - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. 1 Checked that this IE is present Checked that this IE is absent TDD Different from the Default setting in TS34.108 clause 6.1 (TDD) Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Intra-frequency measurement event results Ig TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0) Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE | Rel-7 |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Measurement identity | 1 | |
| Measured Results | Checked that this IE is absent | |
| Measured results on RACH | Checked that this IE is absent | |
| Additional measured results | Checked that this IE is absent | |
| Event results | | |
| - CHOICE <i>event result</i> | Inter-frequency measurement event results | |
| - Inter-frequency measurement event results | | |
| - Inter-frequency event identity | 2b | |
| - Inter-frequency cells | | |
| - Frequency info | Reference to table 6.1.7 for cell 4 | |
| - Non frequency related measurement event results | | |
| - Cell measurement event results | | |
| - CHOICE <i>mode</i> | TDD | |
| - Primary CCPCH info | | |
| - CHOICE mode | TDD | |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-4 |
| - CHOICE <i>SyncCase</i> | Sync Case 1 | |
| - Timeslot | Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0) | |
| - Cell parameters ID | Reference clause 6.1.4 Default settings for cell 1(TDD) | |
| - SCTD indicator | FALSE | |
| GSM OTD reference cell | Checked that this IE is absent | Rel-4 |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Measurement identity | 1 | |
| Measured Results | Checked that this IE is absent | |
| Measured results on RACH | Checked that this IE is absent | |
| Additional measured results | Checked that this IE is absent | |
| Event results | | |
| - CHOICE <i>event result</i> | Inter-frequency measurement event results | |
| - Inter-frequency measurement event results | | |
| - Inter-frequency event identity | 2b | |
| - Inter-frequency cells | | |
| - Frequency info | Reference to table 6.1.7 for cell 4 | |
| - Non frequency related measurement event results | | |
| - Cell measurement event results | | |
| - CHOICE <i>mode</i> | TDD | |
| - Primary CCPCH info | | |
| - CHOICE mode | TDD | |

| Information Element | Value/remark | Version |
|------------------------|---|---------|
| - CHOICE TDD option | 1.28 Mcps TDD | |
| -TSTD indicator | FALSE | |
| - Cell parameters ID | Reference clause 6.1.4 Default settings for cell 1(TDD) | |
| - SCTD indicator | FALSE | |
| GSM OTD reference cell | Checked that this IE is absent | Rel-4 |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Measurement identity | 1 | |
| Measured Results | Checked that this IE is absent | |
| Measured results on RACH | Checked that this IE is absent | |
| Additional measured results | Checked that this IE is absent | |
| Event results | | |
| - CHOICE <i>event result</i> | Inter-frequency measurement event results | |
| - Inter-frequency measurement event results | | |
| - Inter-frequency event identity | 2b | |
| - Inter-frequency cells | | |
| - Frequency info | Reference to table 6.1.7 for cell 4 | |
| - Non frequency related measurement event results | | |
| - Cell measurement event results | | |
| - CHOICE <i>mode</i> | TDD | |
| - Primary CCPCH info | | |
| - CHOICE mode | TDD | |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 |
| - CHOICE <i>SyncCase</i> | Sync Case 1 | |
| - Timeslot | Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0) | |
| - Cell parameters ID | Reference clause 6.1.4 Default settings for cell 1(TDD) | |
| - SCTD indicator | FALSE | |
| GSM OTD reference cell | Checked that this IE is absent | Rel-4 |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|---|--|---------|----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | | PCR3-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | PCR3-002 |
| Integrity check info | | | | PCR3-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | PCR3-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | PCR3-005 |
| Integrity protection mode info | | Not Present | | PCR3-006 |
| Ciphering mode info | | Not Present | | PCR3-007 |
| Activation time | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | PCR3-008 |
| Activation time | A4, A5, A6, A7, A8, A9, | Not Present | | PCR3-009 |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------------------------|---|--|---------|----------|
| New U-RNTI | A10 | Not Present | | PCR3-010 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | | PCR3-011 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | PCR3-012 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | PCR3-013 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | PCR3-014 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | PCR3-015 |
| RRC State indicator | A5, A6 | CELL_FACH | | PCR3-016 |
| RRC State indicator | A7, A8 | URA_PCH | | PCR3-017 |
| RRC State indicator | A9, A10 | CELL_PCH | | PCR3-018 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | PCR3-019 |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | | PCR3-020 |
| CN information info | | Not Present | | PCR3-021 |
| URA identity | | Not Present | | PCR3-022 |
| Downlink counter synchronisation info | | Not Present | | PCR3-023 |
| Frequency info | A1, A2, A3, A4, A5 | | | PCR3-024 |
| - Choice mode | | TDD | | PCR3-025 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | | PCR3-026 |
| Frequency info | A6, A7, A8, A9, A10 | Not Present | | PCR3-027 |
| Maximum allowed UL TX power | | 33dBm | | PCR3-028 |
| CHOICE channel requirement | A5, A6, A7, A8, A9, A10 | Not Present | | PCR3-029 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | PCR3-030 |
| - Uplink DPCH power control info | | | | PCR3-031 |
| - CHOICE mode | | TDD | | PCR3-032 |
| - UL target SIR | | 6 | | PCR3-033 |
| - CHOICE UL OL PC info | | Individually Signalled | | PCR3-034 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-035 |
| - Individual timeslot interference | | Reference to TS34.108 clause 6.10.3 Parameter Set | | PCR3-036 |
| info | | | | |
| - Individual timeslot interference | | | Rel-4 | PCR3-037 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | PCR3-038 |
| - Timeslot number | | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set | | PCR3-039 |
| - TDD UL interference | | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified -60 dBm) | | |
| - Primary CCPCH Tx Power | | 18 Integer(6..43) (-70 dBm Received if pathloss not specified) | | PCR3-041 |
| - CHOICE mode | | TDD | | PCR3-042 |
| - Uplink Timing Advance Control | | Enabled | | PCR3-043 |
| - CHOICE Timing Advance | | 3.84 Mcps TDD (Default) | Rel-4 | PCR3-044 |
| - CHOICE TDD option | | | | PCR3-045 |
| - UL CCTrCH List | | | | PCR3-046 |
| - TFCS ID | | 1 | | PCR3-047 |
| - UL Target SIR | | Real (-11 .. 20 by step of 0.5dB) | | PCR3-048 |
| - Time info | | Reference to TS34.108 Parameter set. | | PCR3-049 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | PCR3-050 |
| - Duration | | Infinite | | PCR3-051 |
| - Common timeslot info | | | | PCR3-052 |
| - 2 nd interleaving mode | | Default value is "Frame" | | PCR3-053 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|---|---------|----------|
| - TFCI coding | | Reference to TS34.108 clause 6 Parameter set | | PCR3-054 |
| - Puncturing limit | | Reference to TS34.108 clause 6 Parameter set | | PCR3-055 |
| - Repetition period | | 1 | | PCR3-056 |
| - Repetition length | | Null | | PCR3-057 |
| - Uplink DPCH timeslots and code | | | | PCR3-058 |
| - Dynamic SF usage | | FALSE | | PCR3-059 |
| - First individual timeslot info | | | | PCR3-060 |
| - Timeslot number | | | | PCR3-061 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-062 |
| - Timeslot number | | 1 OR 2 OR 3 | | PCR3-063 |
| - TFCI existence | | TRUE | | PCR3-064 |
| - Midamble shift and burst type | | | | PCR3-065 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-066 |
| - Midamble allocation mode | | Default midamble | | PCR3-067 |
| - Midamble configuration | | 16 | | PCR3-068 |
| - Midamble Shift | | Not Present | | PCR3-069 |
| - CHOICE TDD option | | 3.84 Mcps TDD (No Data) | Rel-4 | PCR3-070 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | PCR3-071 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | PCR3-072 |
| - CHOICE more timeslots | | No more timeslots (No Data) | | PCR3-073 |
| - UL CCTrCH List to Remove | | Not present | | PCR3-074 |
| Downlink radio resources | | | | PCR3-075 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TDD | | PCR3-076 |
| - Downlink PDSCH information | | No data | | PCR3-077 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | PCR3-078 |
| Downlink information common for all radio links | A1, A2, A3 | | | PCR3-079 |
| - Downlink DPCH info common for all RL | | Maintain | | PCR3-080 |
| - Timing indication | | Not Present | | PCR3-081 |
| - CFN-targetSFN frame offset | | | | PCR3-082 |
| - Downlink DPCH power control information | | | | PCR3-083 |
| - CHOICE mode | | TDD | | PCR3-084 |
| - TPC Step Size | | 1 | | PCR3-085 |
| - MAC-d HFN initial value | | Not Present | | PCR3-086 |
| - CHOICE mode | | TDD | | PCR3-087 |
| - CHOICE mode | | TDD | | PCR3-088 |
| - CHOICE TDD option | | 3.84 Mcps TDD (No Data) | Rel-4 | PCR3-089 |
| - Default DPCH Offset Value | | Not Present | | PCR3-090 |
| Downlink information common for all radio links | A4 | | | PCR3-091 |
| - Downlink DPCH info common for all RL | | Initialise | | PCR3-092 |
| - Timing indication | | Not Present | | PCR3-093 |
| - CFN-targetSFN frame offset | | | | PCR3-094 |
| - Downlink DPCH power control information | | | | PCR3-095 |
| - CHOICE mode | | TDD | | PCR3-096 |
| - TPC Step Size | | 1 | | PCR3-097 |
| - MAC-d HFN initial value | | Not Present | | PCR3-098 |
| - CHOICE mode | | TDD | | PCR3-099 |
| - CHOICE mode | | TDD | | PCR3-100 |
| - CHOICE TDD option | | 3.84 Mcps TDD (No Data) | Rel-4 | PCR3-101 |
| - Default DPCH Offset Value | | | | PCR3-102 |
| - CHOICE mode | | TDD | | PCR3-103 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------|--|--------------------|----------|
| - Default DPCH Offset Value | | 0 Integer(0..7) | | PCR3-104 |
| Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 | Not Present | | PCR3-105 |
| Downlink information per radio link list | A1, A2,A3 | | | PCR3-106 |
| - Downlink information for each radio link | | TDD | | PCR3-107 |
| - Choice mode | | TDD | | PCR3-108 |
| - Primary CCPCH info | | 3.84 Mcps TDD | Rel-4 | PCR3-109 |
| - Choice mode | | Sync Case 1 | | PCR3-110 |
| - Choice TDD Option | | Reference clause 6.1.4 Default settings for cell 1 | | PCR3-111 |
| - CHOICE <i>SyncCase</i> | | | | PCR3-112 |
| - Timeslot | | | | PCR3-113 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) | | PCR3-114 |
| - SCTD indicator | | FALSE | | PCR3-115 |
| - Downlink DPCH info for each RL | | TDD | | PCR3-116 |
| - CHOICE mode | | | | PCR3-117 |
| - DL CCTrCh List | | 2 Integer(1.8) | | PCR3-118 |
| - TFCS ID | | | | PCR3-119 |
| - Time info | | Now | | PCR3-120 |
| - Activation time | | Infinite | | PCR3-121 |
| - Duration | | | | PCR3-122 |
| - Common timeslot info | | Default value is "Frame" | | PCR3-123 |
| - 2nd interleaving mode | | Reference to TS34.108 clause 6 | | PCR3-124 |
| - TFCI coding | | Parameter set | | PCR3-125 |
| - Puncturing limit | | Reference to TS34.108 clause 6 | | PCR3-126 |
| - Repetition period | | Parameter set | | PCR3-127 |
| - Repetition length | | 1 | | PCR3-128 |
| - Downlink DPCH timeslots and codes | | NULL | | PCR3-129 |
| - First individual timeslot info | | | | PCR3-130 |
| - Timeslot number | | | | PCR3-131 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-132 |
| - Timeslot number | | 4 OR 5 OR 6 | | PCR3-133 |
| - TFCI existence | | TRUE | | PCR3-134 |
| - Midamble shift and burst type | | | | PCR3-135 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-136 |
| - CHOICE <i>Burst Type</i> | | Type 1 | | PCR3-137 |
| - Midamble allocation mode | | Default midamble | | PCR3-138 |
| - Midamble configuration | | 16 | | PCR3-139 |
| - Midamble Shift | | Not Present | | PCR3-140 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | PCR3-141 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | PCR3-142 |
| - CHOICE codes representation | | Bitmap | | PCR3-143 |
| - Channelisation codes bitmap | | Reference to TS34.108 clause 6.10 | | PCR3-144 |
| - CHOICE more timeslots | | Parameter Set | | PCR3-145 |
| - UL CCTrCH TPC List | | No more timeslots (No Data) | | PCR3-146 |
| - UL TPC TFCS Identity | | Default (is previous list or all defined UL CCTrCHs.) | | |
| - TFCS ID | | 1 | | PCR3-147 |
| - Shared Channel Indicator | | FALSE | | PCR3-148 |
| - DL CCTrCH List to Remove | | Not present | | PCR3-149 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | PCR3-150 |
| Downlink information per radio link list | A4 | | | PCR3-151 |
| - Downlink information for each radio link | | TDD | | PCR3-152 |
| - Choice mode | | TDD | | PCR3-153 |
| - Primary CCPCH info | | 3.84 Mcps TDD | Rel-4 | PCR3-154 |
| - Choice mode | | Sync Case 1 | | PCR3-155 |
| - Choice TDD Option | | | | PCR3-156 |
| - CHOICE <i>SyncCase</i> | | | | PCR3-157 |
| | | | | PCR3-158 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---------------------|---|--------------------|--|
| - Timeslot | | Reference clause 6.1.4 Default settings for cell 1 | | PCR3-159 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) | | PCR3-160 |
| - SCTD indicator | | FALSE | | PCR3-161 |
| - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - DL CCTrCh List to Remove - SCCPCH Information for FACH | A5 | TDD Not Present Not present Not Present | R99 and Rel-4 only | PCR3-162 PCR3-163 PCR3-164 PCR3-165 PCR3-166 |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot | | TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 | Rel-4 | PCR3-167 PCR3-168 PCR3-169 PCR3-170 PCR3-171 PCR3-172 PCR3-173 PCR3-174 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) | | PCR3-175 |
| - SCTD indicator | | FALSE | | PCR3-176 |
| - Downlink DPCH info for each RL | | Not Present | | PCR3-177 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | PCR3-178 |
| Downlink information per radio link list | A6, A7, A8, A9, A10 | Not Present | | PCR3-179 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|------------------------|---|---------|----------|
| Message Type | A1, A2, A3, A4, A5, A6 | | | PCR1-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | PCR1-002 |
| Integrity check info | | | | PCR1-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | PCR1-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | PCR1-005 |
| Integrity protection mode info | | Not Present | | PCR1-006 |
| Ciphering mode info | | Not Present | | PCR1-007 |
| Activation time | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | PCR1-008 |
| Activation time | A4, A5, A6 | Now | | PCR1-009 |
| Delay restriction flag | A1,A2,A3,A4,A5,A6 | Not Present | Rel-6 | PCR1-010 |
| New U-RNTI | | Not Present | | PCR1-011 |
| New C-RNTI | A1, A2, A3, A4 | Not Present | | PCR1-012 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | PCR1-013 |
| New DSCH-RNTI | A1, A2, A3, | Not Present | | PCR1-014 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|---------|-----------|
| New H-RNTI | A4, A5, A6 A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | PCR1-015 |
| CHOICE <i>mode</i> | | TDD | Rel-7 | PCR1-016 |
| - New E-RNTI | | Not Present | Rel-7 | PCR1-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | PCR1-018 |
| RRC State indicator | A5, A6 | CELL_FACH | | PCR1-019 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | PCR1-020 |
| CN information info | | Not Present | | PCR1-021 |
| URA identity | | Not Present | | PCR1-022 |
| RNC support for change of UE capability | | Not Present | Rel-7 | PCR1-022a |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 | PCR1-022b |
| Downlink counter synchronization info | | Not Present | | PCR1-023 |
| Frequency info | A1, A2, A3, A4, A5 | | | PCR1-024 |
| - Choice mode | | TDD | | PCR1-028 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | | PCR1-029 |
| Frequency info | A6 | Not Present | | PCR1-030 |
| Multi-frequency Info | | Not Present | Rel-7 | PCR1-030a |
| MIMO parameters | | Not Present | Rel-8 | PCR1-025 |
| Control Channel DRX information | | Not Present | Rel-8 | PCR1-026 |
| SPS Information | | Not Present | Rel-8 | PCR1-027 |
| MU-MIMO info | | Not Present | Rel-10 | PCR1-030b |
| Maximum allowed UL TX power | | 33dBm | | PCR1-031 |
| CHOICE channel requirement | A5, A6 | Not Present | | PCR1-032 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | PCR1-033 |
| - Uplink DPCH power control info | | | | PCR1-034 |
| - CHOICE mode | | TDD | | PCR1-035 |
| - UL target SIR | | 25 dB | | PCR1-036 |
| - CHOICE UL OL PC info | | Individually Signalled | | PCR1-038 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-039 |
| - TPC step size | | 1 | | PCR1-040 |
| - Primary CCPCH Tx Power | | 20 Integer(6..43) | | PCR1-041 |
| - CHOICE mode | | TDD | | PCR1-042 |
| - Uplink Timing Advance Control | | | | PCR1-043 |
| - CHOICE Timing Advance | | Enabled | | PCR1-044 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-045 |
| - Uplink synchronization parameters | | | | PCR1-046 |
| - Uplink synchronization step size | | 1 | | PCR1-047 |
| - Uplink synchronization frequency | | 1 | | PCR1-048 |
| - Synchronization parameters | | | | PCR1-049 |
| - SYNC_UL codes bitmap | | 01010101 | | PCR1-050 |
| - FPACH info | | | | PCR1-051 |
| - Timeslot number | | 0 | | PCR1-052 |
| - Channelisation code | | 16/15 | | PCR1-053 |
| - Midamble Shift and burst type | | | | PCR1-054 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-055 |
| - Midamble Allocation Mode | | Default midamble | | PCR1-056 |
| - Midamble configuration | | 4 (k=8) | | PCR1-057 |
| - WT | | 4 Integer(1..4) | | PCR1-058 |
| - PRXUpPCHdes | | -80 dBm | | PCR1-059 |
| - SYNC_UL procedure | | | | PCR1-060 |
| - Max SYNC_UL Transmissions | | 2 | | PCR1-061 |
| - Power Ramp Step | | 2 | | PCR1-062 |
| - UL CCTrCH List | | | | PCR1-063 |
| - TFCS ID | | 1 | | PCR1-064 |
| - UL Target SIR | | 25 dB | | PCR1-065 |
| - Time info | | | | PCR1-066 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | PCR1-067 |
| - Duration | | Infinite | | PCR1-068 |
| - Common timeslot info | | | | PCR1-069 |
| - 2 nd interleaving mode | | Default value is "Frame" | | PCR1-070 |
| - TFCl coding | | Reference to clause 6 Parameter set | | PCR1-071 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|---|---------|-----------|
| - Puncturing limit | | Reference to clause 6 Parameter set | | PCR1-072 |
| - Repetition period | | 1 | | PCR1-073 |
| - Repetition length | | Null | | PCR1-074 |
| - Uplink DPCH timeslots and code | | | | PCR1-075 |
| - Dynamic SF usage | | FALSE | | PCR1-076 |
| - First individual timeslot info | | | | PCR1-077 |
| - Timeslot number | | | | PCR1-078 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-079 |
| - Timeslot number | | 1 OR 2 OR 3 | | PCR1-080 |
| - TFCI existence | | TRUE | | PCR1-081 |
| - Midamble shift and burst type | | | | PCR1-082 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-083 |
| - Midamble allocation mode | | Default midamble | | PCR1-084 |
| - Midamble configuration | | 8 (k=16) | | PCR1-085 |
| - Midamble Shift | | Not Present | | PCR1-086 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-087 |
| - Modulation | | QPSK | | PCR1-088 |
| - SS-TPC Symbols | | 1 | | PCR1-089 |
| - Additional TPC-SS Symbols | | Not present | | PCR1-090 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | PCR1-091 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | PCR1-092 |
| - CHOICE more timeslots | | No more timeslots | | PCR1-093 |
| - UL CCTrCH List to Remove | | Not present | | PCR1-094 |
| E-DCH Info | | Not Present | Rel-7 | PCR1-095 |
| Multi-carrier E-DCH Info for LCR TDD | | Not Present | Rel-10 | PCR1-095a |
| CHOICE Mode | A1, A2, A3, A4, A5, A6 | TDD | | PCR1-096 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | PCR1-097 |
| Downlink information common for all radio links | A1, A2, A3 | | | PCR1-098 |
| - Downlink DPCH info common for all RL | | | | PCR1-099 |
| - Timing indication | | Maintain | | PCR1-100 |
| - CFN-targetSFN frame offset | | Not Present | | PCR1-101 |
| - Downlink DPCH power control information | | | | PCR1-102 |
| - CHOICE mode | | TDD | | PCR1-103 |
| - TPC Step Size | | 1 | | PCR1-104 |
| - MAC-d HFN initial value | | Not Present | | PCR1-105 |
| - CHOICE mode | | TDD | | PCR1-106 |
| - CHOICE mode | | TDD | | PCR1-107 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-108 |
| - TSTD indicator | | FALSE | | PCR1-109 |
| - Default DPCH Offset Value | | Not Present | | PCR1-110 |
| Downlink information common for all radio links | A4 | | | PCR1-111 |
| - Downlink DPCH info common for all RL | | | | PCR1-112 |
| - Timing indication | | Initialize | | PCR1-113 |
| - CFN-targetSFN frame offset | | Not Present | | PCR1-114 |
| - Downlink DPCH power control information | | | | PCR1-115 |
| - CHOICE mode | | TDD | | PCR1-116 |
| - TPC Step Size | | 1 | | PCR1-117 |
| - MAC-d HFN initial value | | Not Present | | PCR1-118 |
| - CHOICE mode | | TDD | | PCR1-119 |
| - CHOICE mode | | TDD | | PCR1-120 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-121 |
| - TSTD indicator | | FALSE | | PCR1-122 |
| - Default DPCH Offset Value | | | | PCR1-123 |
| - CHOICE mode | | TDD | | PCR1-124 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | PCR1-125 |
| Downlink information common for all radio links | A5, A6 | Not Present | | PCR1-126 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|---|--------------------|----------|
| Downlink information per radio link list | A1, A2, A3, A4 | | | PCR1-127 |
| - Downlink information for each radio link | | | | PCR1-128 |
| - Choice mode | | TDD | | PCR1-129 |
| - Primary CCPCH info | | | | PCR1-130 |
| - Choice mode | | TDD | | PCR1-131 |
| - Choice TDD Option | | 1.28 Mcps TDD | | PCR1-132 |
| - TSTD indicator | | FALSE | | PCR1-133 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) | | |
| | | Integer(0..127) | | PCR1-134 |
| - SCTD indicator | | FALSE | | PCR1-135 |
| - Downlink DPCH info for each RL | | | | PCR1-136 |
| - CHOICE mode | | TDD | | PCR1-137 |
| - DL CCTrCh List | | | | PCR1-138 |
| - TFCS ID | | 2 Integer(1.8) | | PCR1-139 |
| - Time info | | | | PCR1-140 |
| - Activation time | | Now | | PCR1-141 |
| - Duration | | Infinite | | PCR1-142 |
| - Common timeslot info | | | | PCR1-143 |
| - 2nd interleaving mode | | Default value is "Frame" | | PCR1-144 |
| - TFCI coding | | Reference to clause 6 Parameter set | | PCR1-145 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | PCR1-146 |
| - Repetition period | | 1 | | PCR1-147 |
| - Repetition length | | NULL | | PCR1-148 |
| - Downlink DPCH timeslots and codes | | | | PCR1-149 |
| - First individual timeslot info | | | | PCR1-150 |
| - Timeslot number | | | | PCR1-151 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-152 |
| - Timeslot number | | 4 OR 5 OR 6 | | PCR1-153 |
| - TFCI existence | | TRUE | | PCR1-154 |
| - Midamble shift and burst type | | | | PCR1-155 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-156 |
| - Midamble allocation mode | | Default midamble | | PCR1-157 |
| - Midamble configuration | | 8 (k=16) | | PCR1-158 |
| - Midamble Shift | | Not Present | | PCR1-159 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | PCR1-160 |
| - Modulation | | QPSK | | PCR1-161 |
| - SS-TPC Symbols | | 1 | | PCR1-162 |
| - Additional TPC-SS Symbols | | Not present | | PCR1-163 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | PCR1-164 |
| | | | | PCR1-165 |
| - CHOICE codes representation | | | | PCR1-166 |
| - Channelisation codes bitmap | | Reference to clause 6.11 Parameter Set | | PCR1-166 |
| - CHOICE more timeslots | | No more timeslots | | PCR1-167 |
| - UL CCTrCH TPC List | | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | PCR1-168 |
| | | | | PCR1-169 |
| - UL TPC TFCS Identity | | | | PCR1-170 |
| - TFCS ID | | 1 | | PCR1-170 |
| - Shared Channel Indicator | | FALSE | | PCR1-171 |
| - DL CCTrCH List to Remove | | Not present | | PCR1-172 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | PCR1-173 |
| | | | Rel-6 | PCR1-174 |
| - E-AGCH Info | | Not Present | Rel-7 | PCR1-175 |
| - CHOICE mode | | TDD | Rel-7 | PCR1-176 |
| - E-HICH Information | | Not Present | | PCR1-177 |
| Downlink information per radio link list | A5 | | | PCR1-178 |
| - Downlink information for each radio link | | | | PCR1-179 |
| - Choice mode | | TDD | | PCR1-180 |
| - Primary CCPCH info | | | | PCR1-181 |
| - Choice mode | | TDD | | PCR1-182 |
| - Choice TDD Option | | 1.28 Mcps TDD | | PCR1-183 |
| - TSTD indicator | | FALSE | | PCR1-183 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) | | PCR1-184 |
| | | Integer(0..127) | | |
| - SCTD indicator | | FALSE | | PCR1-185 |
| - Downlink DPCH info for each RL | | Not Present | | PCR1-186 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--------------|--------------------|-----------|
| - SCCPCH Information for FACH | A6 | Not Present | R99 and Rel-4 only | PCR1-187 |
| - E-AGCH Info | | Not Present | Rel-6 | PCR1-188 |
| - CHOICE <i>mode</i> | | TDD | Rel-7 | PCR1-189 |
| - E-HICH Information | | Not Present | Rel-7 | PCR1-190 |
| Downlink information per radio link list | | Not Present | | PCR1-191 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | PCR1-192 |
| CELL_DCH measurement occasion info LCR | | Not Present | Rel-9 | PCR1-192a |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---------------------------------------|---|---|----------------------------------|----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | | | PCR7-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | PCR7-002 |
| Integrity check info | | | | PCR7-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | PCR7-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | PCR7-005 |
| Integrity protection mode info | | Not Present | | PCR7-006 |
| Ciphering mode info | | Not Present | | PCR7-007 |
| Activation time | | A1, A2, A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | PCR7-008 |
| Activation time | | A4, A5, A6, A7, A8, A9, A10 | Not Present | PCR7-009 |
| New U-RNTI | | Not Present | | PCR7-010 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A9, A10 | Not Present | | PCR7-011 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | PCR7-012 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | PCR7-013 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | PCR7-014 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH | | PCR7-015 |
| RRC State indicator | A5, A6 | CELL_FACH | | PCR7-016 |
| RRC State indicator | A7, A8 | URA_PCH | | PCR7-017 |
| RRC State indicator | A9, A10 | CELL_PCH | | PCR7-018 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6 | Not Present | | PCR7-019 |
| UTRAN DRX cycle length coefficient | A7, A8, A9, A10 | 3 | | PCR7-020 |
| CN information info | A1, A2, A3, | Not Present | | PCR7-021 |
| URA identity | | Not Present | | PCR7-022 |
| Downlink counter synchronisation info | | Not Present | | PCR7-023 |
| Frequency info | | | | PCR7-024 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------------------|---|---------|----------------------|
| - Choice mode - UARFCN (Nt) Frequency info | A4, A5 | TDD | | PCR7-025 |
| Maximum allowed UL TX power | A6, A7, A8, A9, A10 | Reference to clause 5.1 Test frequencies Not Present | | PCR7-026 PCR7-027 |
| CHOICE channel requirement | A5, A6, A7, A8, A9, A10 | 33dBm | | PCR7-028 |
| CHOICE channel requirement | A5, A6, A7, A8, A9, A10 | Not Present | | PCR7-029 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | PCR7-030 |
| - Uplink DPCH power control info | | TDD | | PCR7-031 |
| - CHOICE mode | | 6 | | PCR7-032 |
| - UL target SIR | | Individually Signalled | | PCR7-033 |
| - CHOICE UL OL PC info | | 7.68 Mcps TDD | Rel-7 | PCR7-034 |
| - CHOICE TDD option | | Reference to TS34.108 clause 6.11 Parameter Set | | PCR7-035 |
| - Individual timeslot interference | | | | PCR7-036 |
| info | | | | |
| - Individual timeslot interference | | 7.68 Mcps TDD | Rel-7 | PCR7-037 |
| - CHOICE TDD option | | As required by, Reference to TS34.108 clause 6.11 Parameter Set | | PCR7-038 |
| - Timeslot number | | As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm) | | PCR7-039 |
| - TDD UL interference | | 18 Integer(6..43) (-70 dBm Received if pathloss not specified) | | PCR7-040 |
| - Primary CCPCH Tx Power | | TDD | | PCR7-041 |
| - CHOICE mode | | Enabled | | PCR7-042 |
| - Uplink Timing Advance Control | | 7.68 Mcps TDD | Rel-7 | PCR7-043 |
| - CHOICE Timing Advance | | 0 | Rel-7 | PCR7-044 |
| - CHOICE TDD option | | 1 | | PCR7-045 |
| - Extended UL Timing Advance | | Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set. | | PCR7-046 |
| - UL CCTrCH List | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | PCR7-047 |
| - TFCS ID | | Infinite | | PCR7-048 |
| - UL Target SIR | | Default value is "Frame" Reference to TS34.108 clause 6 Parameter set | | PCR7-049 |
| - Time info | | Reference to TS34.108 clause 6 Parameter set | | PCR7-050 |
| - Activation time | | Reference to TS34.108 clause 6 Parameter set | | PCR7-051 |
| - Duration | | 1 | | PCR7-052 |
| - Common timeslot info | | Null | | PCR7-053 |
| - 2 nd interleaving mode | | FALSE | | PCR7-054 |
| - TFCl coding | | TRUE | | PCR7-055 |
| - Puncturing limit | | 1 | | PCR7-056 |
| - Repetition period | | Null | | PCR7-057 |
| - Repetition length | | FALSE | | PCR7-058 |
| - Uplink DPCH timeslots and code | | 7.68 Mcps TDD | Rel-7 | PCR7-059 |
| - Dynamic SF usage | | 1 OR 2 OR 3 | | PCR7-060 |
| - First individual timeslot info | | TRUE | | PCR7-061 |
| - Timeslot number | | 7.68 Mcps TDD | Rel-7 | PCR7-062 |
| - CHOICE TDD option | | 1 OR 2 OR 3 | | PCR7-063 |
| - Timeslot number | | TRUE | | PCR7-064 |
| - TFCl existence | | 7.68 Mcps TDD | Rel-7 | PCR7-065 |
| - Midamble shift and burst type | | Default midamble | | PCR7-066 |
| - CHOICE TDD option | | 8 | | PCR7-067 |
| - Midamble allocation mode | | Not Present | | PCR7-068 |
| - Midamble configuration | | 7.68 Mcps TDD (No Data) | Rel-7 | PCR7-069 |
| - Midamble Shift | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | PCR7-070 |
| - CHOICE TDD option | | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | PCR7-071 |
| - First timeslot Code List | | | | PCR7-072 |
| - channelisation codes | | | | PCR7-073 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|--|--|--|
| - CHOICE more timeslots - UL CCTrCh List to Remove | | No more timeslots (No Data) Not present | | PCR7-074 PCR7-075 |
| Downlink radio resources | | | | PCR7-076 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TDD | | PCR7-077 |
| - Downlink PDSCH information | | No data | | PCR7-078 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | PCR7-079 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value | A1, A2, A3 | Maintain Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD (No Data) Not Present | Rel-7 | PCR7-080 PCR7-081 PCR7-082 PCR7-083 PCR7-084 PCR7-085 PCR7-086 PCR7-087 PCR7-088 PCR7-089 PCR7-090 PCR7-091 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value | A4 | Initialise Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD (No Data) TDD | Rel-7 | PCR7-092 PCR7-093 PCR7-094 PCR7-095 PCR7-096 PCR7-097 PCR7-098 PCR7-099 PCR7-100 PCR7-101 PCR7-102 PCR7-103 PCR7-104 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | PCR7-105 |
| Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 | Not Present | | PCR7-106 |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding | A1, A2,A3 | TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE 7.68 TDD 2 Integer(1.8) Now Infinite Default value is "Frame" Reference to TS34.108 clause 6 | Rel-7 Rel-7 | PCR7-107 PCR7-108 PCR7-109 PCR7-110 PCR7-111 PCR7-112 PCR7-113 PCR7-114 PCR7-115 PCR7-116 PCR7-117 PCR7-118 PCR7-119 PCR7-120 PCR7-121 PCR7-122 PCR7-123 PCR7-124 PCR7-125 PCR7-126 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|--|--|--|--|--|
| <ul style="list-style-type: none"> - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes VHCR | | Parameter set Reference to TS34.108 clause 6 Parameter set 1 NULL | Rel-7 | PCR7-127 PCR7-128 PCR7-129 PCR7-130 | |
| | | 7.68 Mcps TDD 4 OR 5 OR 6 TRUE | Rel-7 | PCR7-131 PCR7-132 PCR7-133 PCR7-134 PCR7-135 PCR7-136 | |
| | | 7.68 Mcps TDD | Rel-7 | PCR7-137 | |
| | - CHOICE <i>Burst Type</i> | Type 1 | | PCR7-138 | |
| <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes VHCR <ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap <ul style="list-style-type: none"> - CHOICE more timeslots - UL CCTrCH TPC List <ul style="list-style-type: none"> - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator | A4 | Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present | Rel-7 R99 and Rel-4 only | PCR7-139 PCR7-140 PCR7-141 PCR7-142 PCR7-143 PCR7-144 PCR7-145 PCR7-146 PCR7-147 PCR7-148 PCR7-149 PCR7-150 PCR7-151 PCR7-152 PCR7-153 PCR7-154 PCR7-155 PCR7-156 PCR7-157 PCR7-158 PCR7-159 PCR7-160 PCR7-161 PCR7-162 | |
| | <ul style="list-style-type: none"> - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - DL CCTrCH List to Remove - SCCPCH Information for FACH Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE <i>SyncCase</i> - Timeslot - Cell parameters ID - SCTD indicator | A5 | TDD Not Present Not present Not Present | R99 and Rel-4 only | PCR7-163 PCR7-164 PCR7-165 PCR7-166 PCR7-167 |
| | | TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE | Rel-7 | PCR7-168 PCR7-169 PCR7-170 PCR7-171 PCR7-172 PCR7-173 PCR7-174 PCR7-175 PCR7-176 PCR7-177 PCR7-178 PCR7-179 | |
| | <ul style="list-style-type: none"> - Downlink DPCH info for each RL - SCCPCH Information for FACH | | Not Present Not Present | R99 and | PCR7-179 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---------------------|--------------|------------|----------|
| Downlink information per radio link list | A6, A7, A8, A9, A10 | Not Present | Rel-4 only | PCR7-180 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7 | This IE need for "Packet to URA_PCH from CELL_FACH in PS" |
| A8 | This IE need for "Packet to URA_PCH from CELL_DCH in PS" |
| A9 | This IE need for "Packet to CELL_PCH from CELL_FACH in PS" |
| A10 | This IE need for "Packet to CELL_PCH from CELL_DCH in PS" |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message | Rel-4 |
| Integrity check info - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info CHOICE mode | Not checked TDD | |
| - CHOICE TDD option | 3.84 Mcps TDD | |
| - Uplink Timing Advance | 0 | |
| COUNT-C activation time | Not checked | |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronisation info | Not checked | |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message | Rel-4 |
| Integrity check info - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info CHOICE mode | Not checked TDD | |
| CHOICE TDD option | 1.28 Mcps TDD | |
| COUNT-C activation time | Not checked | |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronization info | Not checked | |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type | | |
| RRC transaction identifier | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked | |
| CHOICE mode | TDD | |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 |
| - Extended Uplink Timing Advance | 0 | Rel-7 |
| COUNT-C activation time | Not checked | |
| Radio bearer uplink ciphering activation time info | Not checked | |
| Uplink counter synchronisation info | Not checked | |

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|---------------------------|--|---------|---------|
| Message Type | A1,A2,A3, A4,A5,A6 | | | RBR3-00 |
| UE Information elements | | | | RBR3-00 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBR3-00 |
| Integrity check info | | | | RBR3-00 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBR3-00 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBR3-00 |
| Integrity protection mode info | | Not Present | | RBR3-00 |
| Ciphering mode info | | Not Present | | RBR3-00 |
| Activation time | A1,A2,A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBR3-00 |
| Activation time | A4, A5,A6 | Not Present | | RBR3-00 |
| New U-RNTI | | MD Integer(0..255) default is 'now' | | RBR3-00 |
| New C-RNTI | | Not Present | | RBR3-00 |
| New C-RNTI | A1, A2, A3, A4, | | | |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBR3-00 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | | RBR3-00 |
| New H-RNTI | A1, A2, A3, | Not Present | Rel-5 | RBR3-00 |

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------------|--------------|--|---------|---------|
| - PDCP SN info | | Not Present | | RBR3-07 |
| - RLC info | | Not Present | | RBR3-07 |
| - RB mapping info | | Not Present | | RBR3-07 |
| - RB stop/continue | | Not Present | | RBR3-07 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR3-07 |
| - RB identity | | 3 | | RBR3-07 |
| - PDCP info | | Not Present | | RBR3-07 |
| - PDCP SN info | | Not Present | | RBR3-08 |
| - RLC info | | Not Present | | RBR3-08 |
| - RB mapping info | | Not Present | | RBR3-08 |
| - RB stop/continue | | Not Present | | RBR3-08 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR3-08 |
| - RB identity | | 4 | | RBR3-08 |
| - PDCP info | | Not Present | | RBR3-08 |
| - PDCP SN info | | Not Present | | RBR3-08 |
| - RLC info | | Not Present | | RBR3-08 |
| - RB mapping info | | Not Present | | RBR3-08 |
| - RB stop/continue | | Not Present | | RBR3-08 |
| - RB information to reconfigure | | (TM DTCH) | | RBR3-09 |
| - RB identity | | 10 | | RBR3-09 |
| - PDCP info | | Not Present | | RBR3-09 |
| - PDCP SN info | | Not Present | | RBR3-09 |
| - RLC info | | Not Present | | RBR3-09 |
| - RB mapping info | | Not Present | | RBR3-09 |
| - RB stop/continue | | Not Present | | RBR3-09 |
| - RB information to reconfigure | | (TM DTCH) | | RBR3-09 |
| - RB identity | | 11 | | RBR3-09 |
| - PDCP info | | Not Present | | RBR3-10 |
| - PDCP SN info | | Not Present | | RBR3-10 |
| - RLC info | | Not Present | | RBR3-10 |
| - RB mapping info | | Not Present | | RBR3-10 |
| - RB stop/continue | | Not Present | | RBR3-10 |
| - RB information to reconfigure | | (TM DTCH) | | RBR3-10 |
| | | (This IE is needed for 12.2 kbps and 10.2 kbps) | | |
| - RB identity | | 12 | | RBR3-10 |
| - PDCP info | | Not Present | | RBR3-10 |
| - PDCP SN info | | Not Present | | RBR3-10 |
| - RLC info | | Not Present | | RBR3-10 |
| - RB mapping info | | Not Present | | RBR3-10 |
| - RB stop/continue | | Not Present | | RBR3-10 |
| - RB information to reconfigure list | A3,A4,A5, A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". | | RBR3-11 |
| | | (UM DCCH for RRC) | | |
| - RB information to reconfigure | | 1 | | RBR3-11 |
| - RB identity | | Not Present | | RBR3-11 |
| - PDCP info | | Not Present | | RBR3-11 |
| - PDCP SN info | | Not Present | | RBR3-11 |
| - RLC info | | Not Present | | RBR3-11 |
| - RB mapping info | | Not Present | | RBR3-11 |
| - RB stop/continue | | Not Present | | RBR3-11 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR3-11 |
| - RB identity | | 2 | | RBR3-11 |
| - PDCP info | | Not Present | | RBR3-11 |
| - PDCP SN info | | Not Present | | RBR3-11 |
| - RLC info | | Not Present | | RBR3-11 |
| - RB mapping info | | Not Present | | RBR3-11 |
| - RB stop/continue | | Not Present | | RBR3-11 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR3-11 |
| - RB identity | | 3 | | RBR3-11 |
| - PDCP info | | Not Present | | RBR3-11 |
| - PDCP SN info | | Not Present | | RBR3-11 |
| - RLC info | | Not Present | | RBR3-11 |
| - RB mapping info | | Not Present | | RBR3-11 |
| - RB stop/continue | | Not Present | | RBR3-11 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR3-11 |
| - RB identity | | 4 | | RBR3-11 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|---|---------|---|
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue | | Not Present Not Present Not Present Not Present Not Present (AM DTCH) 20 Not Present Not Present Not Present Not Present Not Present | | RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 RBR3-11 |
| RB information to be affected | A1, A2, A3, A4, A5, A6 | Not Present | | RBR3-11 |
| TrCH Information Elements | | | | RBR3-11 |
| Uplink transport channels | | | | RBR3-11 |
| UL Transport channel information for all transport channels | A1, A2, A5, A6 | Not Present | | RBR3-11 |
| UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information | A3, A4 | Not Present TDD | | RBR3-11 RBR3-11 RBR3-11 |
| - UL TFCS Identity | | | | RBR3-11 |
| - TFCS ID | | 1 | | RBR3-11 |
| - Shared Channel Indicator | | FALSE | | RBR3-11 |
| - UL TFCS - CHOICE <i>TFCI signalling</i> | | Normal (another option "split" only for FDD) | | RBR3-11 |
| - TFCI Field 1 Information | | | | RBR3-11 |
| - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration | | Complete reconfiguration | | RBR3-11 |
| information - CHOICE <i>CTFC Size</i> - CTFC information - CTFC - Power offset information - CHOICE Gain Factors | | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.3.4 Parameter Set Reference to TS34.108 clause 6.10.3.4 Parameter Set Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | RBR3-11 RBR3-11 RBR3-11 RBR3-11 |
| - Reference TFC ID - CHOICE Gain Factors | | 0 Integer(0.. 3) Signalled Gain Factors (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBR3-11 RBR3-11 |
| - CHOICE <i>mode</i> - Gain Factor β_d - Reference TFC ID - CHOICE <i>mode</i> | | TDD 15 0 Integer(0.. 3) TDD | | RBR3-11 RBR3-11 RBR3-11 RBR3-11 |
| - TFC subset | | | | RBR3-11 |
| - CHOICE <i>Subset representation</i> | | Minimum allowed Transport format combination index | | RBR3-11 |
| - Allowed transport format combination list | | Not present | | RBR3-11 |
| - Non-allowed transport format combination list | | Not present | | RBR3-11 |
| - Non-allowed transport format | | Not present | | RBR3-11 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|---|---------|---------|
| combination list | | | | |
| - Full transport format combination set | | Not present | | RBR3-18 |
| - TFC subset list | | Not present | | RBR3-18 |
| Deleted TrCH information list | | | | RBR3-18 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBR3-18 |
| Added or Reconfigured TrCH information list | | | | RBR3-18 |
| Added or Reconfigured UL TrCH information | A1, A2, A5,A6 | Not Present | | RBR3-18 |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBR3-18 |
| - Uplink transport channel type | | DCH | | RBR3-18 |
| - UL Transport channel identity | | 5 | | RBR3-18 |
| - TFS | | | | RBR3-18 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR3-19 |
| - Dynamic Transport format information | | | | RBR3-19 |
| - RLC Size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-19 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR3-19 |
| - Transmission Time Interval | | Not Present | | RBR3-19 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-19 |
| - CHOICE Logical Channel list | | All | | RBR3-19 |
| - Semi-static Transport Format information | | | | RBR3-19 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-19 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-19 |
| - Coding Rate | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - CRC size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Uplink transport channel type | | DCH | | RBR3-20 |
| - UL Transport channel identity | | 1 | | RBR3-20 |
| - TFS | | | | RBR3-20 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR3-20 |
| - Dynamic Transport format information | | | | RBR3-20 |
| - RLC Size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR3-20 |
| - Transmission Time Interval | | Not Present | | RBR3-20 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - CHOICE Logical Channel list | | All | | RBR3-20 |
| - Semi-static Transport Format information | | | | RBR3-20 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Type of channel coding | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Coding Rate | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - CRC size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| Added or Reconfigured UL TrCH information | A3 | (DCH for DTCH) | | RBR3-20 |
| - Uplink transport channel type | | DCH | | RBR3-20 |
| - UL Transport channel identity | | 1 | | RBR3-20 |
| - TFS | | | | RBR3-20 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR3-20 |
| - Dynamic Transport format information | | | | RBR3-20 |
| - RLC Size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-20 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR3-20 |
| - Transmission Time Interval | | Not Present | | RBR3-20 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------|---|---------|--|
| <ul style="list-style-type: none"> - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | <p>Reference to TS34.108 clause 6.10.3 Parameter Set All</p> <p>Reference to TS34.108 clause 6.10.3 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.3 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.3 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.3 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.3 Parameter Set</p> | | RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; |
| CHOICE mode - (no data) | A1,A2,A3, A4,A5,A6 | TDD | | RBR3-2; RBR3-2; |
| Downlink transport channels | | | | |
| DL Transport channel information common for all transport channel | A1, A2, A5, A6 | Not Present | | RBR3-2; |
| DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information <ul style="list-style-type: none"> - DL TFCS Identity <ul style="list-style-type: none"> - TFCS ID - Shared Channel Indicator - CHOICE <i>DL parameters</i> <ul style="list-style-type: none"> - DL TFCS <ul style="list-style-type: none"> - CHOICE <i>TFCI signalling</i> - TFCI Field 1 Information - CHOICE <i>TFCS representation</i> <ul style="list-style-type: none"> - TFCS complete reconfiguration information <ul style="list-style-type: none"> - CHOICE CTFC Size - CTFC information <ul style="list-style-type: none"> - CTFC - Power offset | A3,A4 | <p>Not Present</p> <p>TDD</p> <p>Independent</p> <p>Normal (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')</p> | | RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; |
| Deleted TrCH information list | | | | RBR3-2; |
| Deleted DL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBR3-2; |
| Added or Reconfigured TrCH information list | | | | RBR3-2; |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present | | RBR3-2; |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS | A4 | <p>2 TrCHs(DCH for DCCH and DCH for DTCH)</p> <p>DCH 10</p> <p>Same as UL</p> <p>DCH 5</p> <p>Not Present</p> <p>DCH 6</p> <p>Explicit</p> | | RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; RBR3-2; |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------------------|---|---------|---|
| <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic transport format information - RLC Size | | Dedicated transport channel | | RBR3-27 RBR3-27 RBR3-27 |
| <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks | | Reference to TS34.108 clause 6.10.3 Parameter Set (This IE is repeated for TFI number.) | | RBR3-27 RBR3-27 RBR3-27 RBR3-27 |
| <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval | | Not Present Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 RBR3-27 |
| <ul style="list-style-type: none"> - Type of channel coding | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 |
| <ul style="list-style-type: none"> - Coding Rate | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 |
| <ul style="list-style-type: none"> - Rate matching attribute | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 |
| <ul style="list-style-type: none"> - CRC size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 |
| <ul style="list-style-type: none"> - DCH quality target - BLER Quality value | | -20 (-2.0) | | RBR3-27 RBR3-27 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size | A3 | DCH 6 Explicit | | RBR3-27 RBR3-27 RBR3-27 RBR3-27 RBR3-27 RBR3-27 RBR3-27 |
| <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks | | Not Present Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-27 RBR3-27 RBR3-27 RBR3-27 |
| <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-30 RBR3-30 |
| <ul style="list-style-type: none"> - Type of channel coding | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-30 |
| <ul style="list-style-type: none"> - Coding Rate | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-30 |
| <ul style="list-style-type: none"> - Rate matching attribute | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-30 |
| <ul style="list-style-type: none"> - CRC size | | Reference to TS34.108 clause 6.10.3 Parameter Set | | RBR3-30 |
| <ul style="list-style-type: none"> - DCH quality target - BLER Quality value | | -20 (-2.0) | | RBR3-30 RBR3-30 |
| Preconfiguration | A1,A2,A3, A4,A5,A6 | [FFS] | Rel-5 | RBR3-30 |
| PhyCH information elements | | | | RBR3-30 |
| Frequency info | A1,A2,A3, A4,A5 | TDD Reference to clause 5.1 Test frequencies | | RBR3-30 RBR3-30 |
| Frequency info | A6 | Not Present | | RBR3-30 |
| Uplink radio resources | | | | RBR3-30 |
| Maximum allowed UL TX power | A1,A2,A3, A4,A5,A6 | 33dBm | | RBR3-30 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | RBR3-30 |
| <ul style="list-style-type: none"> -Uplink DPCH power control info - CHOICE mode - UL target SIR - CHOICE <i>UL OL PC info</i> | | TDD 6 Individually Signalled | | RBR3-30 RBR3-30 RBR3-30 RBR3-30 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---------------------------|---|--|---|
| - CHOICE TDD option - Individual timeslot interference info | | 3.84 Mcps TDD Reference to TS34.108 clause 6.10.3 Parameter Set | Rel-4 | RBR3-3f RBR3-3f |
| - Individual timeslot interference - CHOICE TDD option - Timeslot number - TDD UL interference - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - CHOICE <i>Timing Advance</i> - CHOICE <i>TDD option</i> | | 3.84 Mcps TDD As required by, Reference to TS34.108 clause 6.10.3 Parameter Set As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified -60 dBm) 18 Integer(6..43) (-70 dBm Received if pathloss not specified) TDD Enabled 3.84 Mcps TDD (Default) | Rel-4 Rel-4 | RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f |
| - UL CCTrCH List - TFCS ID | | 1 | | RBR3-3f RBR3-3f |
| - UL Target SIR | | Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set. | | RBR3-3f |
| - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Uplink DPCH timeslots and code - Dynamic SF usage - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type | | (256+CFN-(CFN MOD 8 + 8))MOD 256 infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 empty FALSE | | RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f |
| - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove CHOICE channel requirement | | 3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots (No Data) Not present Not Present | Rel-4 Rel-4 | RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f RBR3-3f |
| Downlink radio resources | | | | RBR3-3f |
| CHOICE Mode - Downlink PDSCH information | A1,A2,A3, A4,A5,A6 | TDD No date | | RBR3-3f RBR3-3f |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBR3-3f |
| Downlink information common for all radio links | A5, A6 | Not Present | | RBR3-3f |
| Downlink information common for all radio links - Downlink DPCH info common for all RL | A1, A2, A3 | | | RBR3-3f RBR3-3f |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|---|--------------------|---|
| - Timing indication - CFN-targetSFN frame offset | | Maintain Not Present | | RBR3-37 RBR3-37 |
| - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE <i>TDD option</i> - Default DPCH Offset Value | | TDD 1 Not Present TDD TDD 3.84 Mcps TDD (No Data) Not Present | Rel-4 | RBR3-37 RBR3-37 RBR3-37 RBR3-37 RBR3-37 RBR3-37 RBR3-37 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE <i>TDD option</i> - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value | | Initialise Not Present TDD 1 Not Present TDD TDD 3.84 Mcps TDD (no Data) | Rel-4 | RBR3-38 RBR3-38 RBR3-38 RBR3-38 RBR3-38 RBR3-38 RBR3-38 RBR3-38 |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE <i>SyncCase</i> - Timeslot - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode | A1, A2, A3, A4 Integer(1.8) | TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 FALSE TDD Identity of this CCTrCh. Default value is 1 Now Infinite Default value is "Frame" | Rel-4 | RBR3-39 RBR3-39 RBR3-39 RBR3-39 RBR3-40 RBR3-40 RBR3-40 RBR3-40 RBR3-40 RBR3-40 RBR3-40 RBR3-40 RBR3-40 |
| - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number | | Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 empty 3.84 Mcps TDD | Rel-4 | RBR3-41 RBR3-41 RBR3-41 RBR3-41 RBR3-41 RBR3-41 RBR3-41 |
| - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes | | 4 OR 5 OR 6 TRUE 3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter | Rel-4 Rel-4 | RBR3-42 RBR3-42 RBR3-42 RBR3-42 RBR3-42 RBR3-42 RBR3-42 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|--------------------|---|
| <ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH | | Set. Bitmap Reference to TS34.108 clause 6.10 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present | R99 and Rel-4 only | RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; |
| Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator | A5 | TDD TDD 3.84 Mcps TDD FALSE Reference clause 6.1.4 Default settings for cell 1 FALSE | Rel-4 | RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; |
| - Downlink DPCH info for each RL | | Not Present | | RBR3-4; |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBR3-4; |
| Downlink information per radio link list | A6 | | | RBR3-4; |
| - Downlink information for each radio link | | Not Present | | RBR3-4; |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|--------------------|--|---------|----------|
| Message Type | A1,A2,A3,A4, A5,A6 | | | RBR1-001 |
| UE Information elements | | | | RBR1-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBR1-003 |
| Integrity check info | | | | RBR1-004 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBR1-005 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBR1-006 |
| Integrity protection mode info | | Not Present | | RBR1-007 |
| Ciphering mode info | | Not Present | | RBR1-008 |
| Activation time | A1,A2,A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBR1-009 |
| Activation time | A4, A5,A6 | Not Present | | RBR1-010 |
| Delay restriction flag | A1,A2,A3,A4, A5,A6 | MD Integer(0..255) default is 'now' | Rel-6 | RBR1-011 |
| New U-RNTI | | Not Present | | RBR1-012 |
| New C-RNTI | A1, A2, A3, A4, | Not Present | | RBR1-013 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---------------------------|--|---------|----------------------|
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBR1-014 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | | RBR1-015 |
| New H-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBR1-016 |
| CHOICE <i>mode</i> - New E-RNTI | | TDD | Rel-7 | RBR1-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH Indicates to a UE the RRC state to be entered. | Rel-7 | RBR1-018 RBR1-019 |
| RRC State indicator | A5, A6 | CELL_FACH | | RBR1-020 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A4, A5,A6 | Not Present A coefficient in the formula to count the paging occasions to be used by a specific UE | | RBR1-021 |
| CN information elements | | | | RBR1-022 |
| CN information info | | Not Present | | RBR1-023 |
| UTRAN mobility information elements | | | | RBR1-024 |
| RNC support for change of UE capability | | Not Present | Rel-7 | RBR1-024a |
| Reconfiguration in response to requested change of UE capability | | Not Present | Rel-7 | RBR1-024b |
| URA identity | | Not Present | | RBR1-025 |
| Default configuration for CELL_FACH | | Not Present | Rel-8 | RBR1-025a |
| CHOICE specification mode | | [FFS] | Rel-5 | RBR1-026 |
| RB information elements | | | | RBR1-027 |
| RAB information to reconfigure list | | Not Present | | RBR1-028 |
| RB information to reconfigure list | A1 | Not Present TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) | | RBR1-029 |
| - RB information to reconfigure | | 1 | | RBR1-030 |
| - RB identity | | Not Present | | RBR1-031 |
| - PDCP info | | Not Present | | RBR1-032 |
| - PDCP SN info | | Not Present | | RBR1-033 |
| - RLC info | | Not Present | | RBR1-034 |
| - RB mapping info | | Not Present | | RBR1-035 |
| - RB stop/continue | | Not Present | | RBR1-036 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR1-037 |
| - RB identity | | 2 | | RBR1-038 |
| - PDCP info | | Not Present | | RBR1-039 |
| - PDCP SN info | | Not Present | | RBR1-040 |
| - RLC info | | Not Present | | RBR1-041 |
| - RB mapping info | | Not Present | | RBR1-042 |
| - RB stop/continue | | Not Present | | RBR1-043 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR1-044 |
| - RB identity | | 3 | | RBR1-045 |
| - PDCP info | | Not Present | | RBR1-046 |
| - PDCP SN info | | Not Present | | RBR1-047 |
| - RLC info | | Not Present | | RBR1-048 |
| - RB mapping info | | Not Present | | RBR1-049 |
| - RB stop/continue | | Not Present | | RBR1-050 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR1-051 |
| - RB identity | | 4 | | RBR1-052 |
| - PDCP info | | Not Present | | RBR1-053 |
| - PDCP SN info | | Not Present | | RBR1-054 |
| - RLC info | | Not Present | | RBR1-055 |
| - RB mapping info | | Not Present | | RBR1-056 |
| - RB stop/continue | | Not Present | | RBR1-057 |
| - RB information to reconfigure | | (TM DTCH) | | RBR1-058 |
| - RB identity | | 10 | | RBR1-059 |
| - PDCP info | | Not Present | | RBR1-060 |
| - PDCP SN info | | Not Present | | RBR1-061 |
| - RLC info | | Not Present | | RBR1-062 |
| - RB mapping info | | Not Present | | RBR1-063 |
| - RB stop/continue | | Not Present | | RBR1-064 |
| RB information to reconfigure list | A2 | Not Present TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". | | RBR1-065 |

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|-------------|--|---------|----------|
| - RB information to reconfigure | | (UM DCCH for RRC) | | RBR1-066 |
| - RB identity | | 1 | | RBR1-067 |
| - PDCP info | | Not Present | | RBR1-068 |
| - PDCP SN info | | Not Present | | RBR1-069 |
| - RLC info | | Not Present | | RBR1-070 |
| - RB mapping info | | Not Present | | RBR1-071 |
| - RB stop/continue | | Not Present | | RBR1-072 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR1-073 |
| - RB identity | | 2 | | RBR1-074 |
| - PDCP info | | Not Present | | RBR1-075 |
| - PDCP SN info | | Not Present | | RBR1-076 |
| - RLC info | | Not Present | | RBR1-077 |
| - RB mapping info | | Not Present | | RBR1-078 |
| - RB stop/continue | | Not Present | | RBR1-079 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR1-080 |
| - RB identity | | 3 | | RBR1-081 |
| - PDCP info | | Not Present | | RBR1-082 |
| - PDCP SN info | | Not Present | | RBR1-083 |
| - RLC info | | Not Present | | RBR1-084 |
| - RB mapping info | | Not Present | | RBR1-085 |
| - RB stop/continue | | Not Present | | RBR1-086 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR1-087 |
| - RB identity | | 4 | | RBR1-088 |
| - PDCP info | | Not Present | | RBR1-089 |
| - PDCP SN info | | Not Present | | RBR1-090 |
| - RLC info | | Not Present | | RBR1-091 |
| - RB mapping info | | Not Present | | RBR1-092 |
| - RB stop/continue | | Not Present | | RBR1-093 |
| - RB information to reconfigure | | (TM DTCH) | | RBR1-094 |
| - RB identity | | 10 | | RBR1-095 |
| - PDCP info | | Not Present | | RBR1-096 |
| - PDCP SN info | | Not Present | | RBR1-097 |
| - RLC info | | Not Present | | RBR1-098 |
| - RB mapping info | | Not Present | | RBR1-099 |
| - RB stop/continue | | Not Present | | RBR1-100 |
| - RB information to reconfigure | | (TM DTCH) | | RBR1-101 |
| - RB identity | | 11 | | RBR1-102 |
| - PDCP info | | Not Present | | RBR1-103 |
| - PDCP SN info | | Not Present | | RBR1-104 |
| - RLC info | | Not Present | | RBR1-105 |
| - RB mapping info | | Not Present | | RBR1-106 |
| - RB stop/continue | | Not Present | | RBR1-107 |
| - RB information to reconfigure | | (TM DTCH) | | RBR1-108 |
| | | (This IE is needed for 12.2 kbps and 10.2 kbps) | | |
| - RB identity | | 12 | | RBR1-109 |
| - PDCP info | | Not Present | | RBR1-110 |
| - PDCP SN info | | Not Present | | RBR1-111 |
| - RLC info | | Not Present | | RBR1-112 |
| - RB mapping info | | Not Present | | RBR1-113 |
| - RB stop/continue | | Not Present | | RBR1-114 |
| RB information to reconfigure list | A3,A4,A5,A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". | | RBR1-115 |
| - RB information to reconfigure | | (UM DCCH for RRC) | | RBR1-116 |
| - RB identity | | 1 | | RBR1-117 |
| - PDCP info | | Not Present | | RBR1-118 |
| - PDCP SN info | | Not Present | | RBR1-119 |
| - RLC info | | Not Present | | RBR1-120 |
| - RB mapping info | | Not Present | | RBR1-121 |
| - RB stop/continue | | Not Present | | RBR1-122 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR1-123 |
| - RB identity | | 2 | | RBR1-124 |
| - PDCP info | | Not Present | | RBR1-125 |
| - PDCP SN info | | Not Present | | RBR1-126 |
| - RLC info | | Not Present | | RBR1-127 |
| - RB mapping info | | Not Present | | RBR1-128 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|--|---------|----------|
| - RB stop/continue | | Not Present | | RBR1-129 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR1-130 |
| - RB identity | | 3 | | RBR1-131 |
| - PDCP info | | Not Present | | RBR1-132 |
| - PDCP SN info | | Not Present | | RBR1-133 |
| - RLC info | | Not Present | | RBR1-134 |
| - RB mapping info | | Not Present | | RBR1-135 |
| - RB stop/continue | | Not Present | | RBR1-136 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR1-137 |
| - RB identity | | 4 | | RBR1-138 |
| - PDCP info | | Not Present | | RBR1-139 |
| - PDCP SN info | | Not Present | | RBR1-140 |
| - RLC info | | Not Present | | RBR1-141 |
| - RB mapping info | | Not Present | | RBR1-142 |
| - RB stop/continue | | Not Present | | RBR1-143 |
| - RB information to reconfigure | | (AM DTCH) | | RBR1-144 |
| - RB identity | | 20 | | RBR1-145 |
| - PDCP info | | Not Present | | RBR1-146 |
| - PDCP SN info | | Not Present | | RBR1-147 |
| - RLC info | | Not Present | | RBR1-148 |
| - RB mapping info | | Not Present | | RBR1-149 |
| - RB stop/continue | | Not Present | | RBR1-150 |
| RB information to be affected | A1, A2, A3,A4,A5,A6 | Not Present | | RBR1-151 |
| TrCH Information Elements | | | | RBR1-152 |
| Uplink transport channels | | | | RBR1-153 |
| UL Transport channel information for all transport channels | A1, A2, A5,A6 | Not Present | | RBR1-154 |
| UL Transport channel information for all transport channels | A3, A4 | | | RBR1-155 |
| - PRACH TFCS | | Not Present | | RBR1-156 |
| - CHOICE mode | | TDD | | RBR1-157 |
| - Individual UL CCTrCH information | | | | RBR1-158 |
| - UL TFCS Identity | | | | RBR1-159 |
| - TFCS ID | | 1 | | RBR1-160 |
| - Shared Channel Indicator | | FALSE | | RBR1-161 |
| - UL TFCS | | | | RBR1-162 |
| - CHOICE <i>TFCS</i> signalling | | Normal (another option "split" only for FDD) | | RBR1-163 |
| - TFCI Field 1 Information | | | | RBR1-164 |
| - CHOICE <i>TFCS</i> representation | | Complete reconfiguration | | RBR1-165 |
| - TFCS complete reconfiguration | | | | RBR1-166 |
| information | | | | |
| - CHOICE <i>CTFC</i> Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RBR1-167 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set | | RBR1-168 |
| - CTFC | | Reference to clause 6.11.5.4 Parameter Set | | RBR1-169 |
| - Power offset information | | | | RBR1-170 |
| - CHOICE Gain Factors | | Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | RBR1-171 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBR1-172 |
| - CHOICE Gain Factors | | Signalled Gain Factors (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBR1-173 |
| - CHOICE <i>mode</i> | | TDD | | RBR1-174 |
| - Gain Factor β_d | | 15 | | RBR1-175 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBR1-176 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|--|---------|----------|
| - CHOICE <i>mode</i> | | TDD | | RBR1-177 |
| - TFC subset | | | | RBR1-178 |
| - CHOICE <i>Subset representation</i> | | Minimum allowed Transport format combination index | | RBR1-179 |
| - Allowed transport format combination list | | Not present | | RBR1-180 |
| - Non-allowed transport format combination list | | Not present | | RBR1-181 |
| - Non-allowed transport format combination list | | Not present | | RBR1-182 |
| - Full transport format combination set | | Not present | | RBR1-183 |
| - TFC subset list | | Not present | | RBR1-184 |
| Deleted TrCH information list | | | | RBR1-185 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBR1-186 |
| Added or Reconfigured TrCH information list | | | | RBR1-187 |
| Added or Reconfigured UL TrCH information | A1, A2, A5,A6 | Not Present | | RBR1-188 |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBR1-189 |
| - Uplink transport channel type | | DCH | | RBR1-190 |
| - UL Transport channel identity | | 5 | | RBR1-191 |
| - TFS | | | | RBR1-192 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR1-193 |
| - Dynamic Transport format information | | | | RBR1-194 |
| - RLC Size | | Reference to clause 6.11.5 Parameter Set | | RBR1-195 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR1-196 |
| - Transmission Time Interval | | Not Present | | RBR1-197 |
| - Number of Transport blocks | | Reference to clause 6.11.5 Parameter Set | | RBR1-198 |
| - CHOICE Logical channel list | | All | | RBR1-199 |
| - Semi-static Transport Format information | | | | RBR1-200 |
| - Transmission time interval | | Reference to clause 6.11.5 Parameter Set | | RBR1-201 |
| - Type of channel coding | | Reference to clause 6.11.5 Parameter Set | | RBR1-202 |
| - Coding Rate | | Reference to clause 6.11.5 Parameter Set | | RBR1-203 |
| - Rate matching attribute | | Reference to clause 6.11.5 Parameter Set | | RBR1-204 |
| - CRC size | | Reference to clause 6.11.5 Parameter Set | | RBR1-205 |
| - Uplink transport channel type | | DCH | | RBR1-206 |
| - UL Transport channel identity | | 1 | | RBR1-207 |
| - TFS | | | | RBR1-208 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR1-209 |
| - Dynamic Transport format information | | | | RBR1-210 |
| - RLC Size | | Reference to clause 6.11.5 Parameter Set | | RBR1-211 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR1-212 |
| - Transmission Time Interval | | Not Present | | RBR1-213 |
| - Number of Transport blocks | | Reference to clause 6.11.5 Parameter Set | | RBR1-214 |
| - CHOICE Logical channel list | | All | | RBR1-215 |
| - Semi-static Transport Format information | | | | RBR1-216 |
| - Transmission time interval | | Reference to clause 6.11.5 Parameter Set | | RBR1-217 |
| - Type of channel coding | | Reference to clause 6.11.5 Parameter Set | | RBR1-218 |
| - Coding Rate | | Reference to clause 6.11.5 Parameter Set | | RBR1-219 |
| - Rate matching attribute | | Reference to clause 6.11.5 Parameter Set | | RBR1-220 |
| - CRC size | | Reference to clause 6.11.5 Parameter Set | | RBR1-221 |
| Added or Reconfigured UL TrCH information | A3 | (DCH for DTCH) | | RBR1-222 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------|--|---------|----------|
| - Uplink transport channel type | | DCH | | RBR1-223 |
| - UL Transport channel identity | | 1 | | RBR1-224 |
| - TFS | | | | RBR1-225 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR1-226 |
| - Dynamic Transport format information | | | | RBR1-227 |
| - RLC Size | | Reference to clause 6.11.5 Parameter Set | | RBR1-228 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR1-229 |
| - Transmission Time Interval | | Not Present | | RBR1-230 |
| - Number of Transport blocks | | Reference to clause 6.11.5 Parameter Set | | RBR1-231 |
| - CHOICE Logical channel list | | All | | RBR1-232 |
| - Semi-static Transport Format information | | | | RBR1-233 |
| - Transmission time interval | | Reference to clause 6.11.5 Parameter Set | | RBR1-234 |
| - Type of channel coding | | Reference to clause 6.11.5 Parameter Set | | RBR1-235 |
| - Coding Rate | | Reference to clause 6.11.5 Parameter Set | | RBR1-236 |
| - Rate matching attribute | | Reference to clause 6.11.5 Parameter Set | | RBR1-237 |
| - CRC size | | Reference to clause 6.11.5 Parameter Set | | RBR1-238 |
| CHOICE mode | A1,A2,A3,A4, A5,A6 | TDD | | RBR1-239 |
| - (no data) | | | | RBR1-240 |
| Downlink transport channels | | | | RBR1-241 |
| DL Transport channel information common for all transport channel | A1, A2, A5, A6 | Not Present | | RBR1-242 |
| DL Transport channel information common for all transport channel | A3,A4 | | | RBR1-243 |
| - SCCPCH TFCS | | Not Present | | RBR1-244 |
| - CHOICE mode | | TDD | | RBR1-245 |
| - Individual DL CCTrCH information | | | | RBR1-246 |
| - DL TFCS Identity | | | | RBR1-247 |
| - TFCS ID | | | | RBR1-248 |
| - Shared Channel Indicator | | Independent | | RBR1-249 |
| - CHOICE DL parameters | | | | RBR1-250 |
| - DL TFCS | | Normal | | RBR1-251 |
| - CHOICE TFCI signalling | | (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard') | | RBR1-252 |
| - TFCI Field 1 Information | | | | RBR1-253 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBR1-254 |
| - TFCS complete | | | | RBR1-255 |
| reconfiguration information | | | | |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RBR1-256 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 | | RBR1-257 |
| - CTFC | | Reference to clause 6.11.5.4 Parameter Set | | RBR1-258 |
| - Power offset | | Not Present | | RBR1-259 |
| information | | | | |
| Deleted TrCH information list | | | | RBR1-260 |
| Deleted DL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBR1-261 |
| Added or Reconfigured TrCH information list | | | | RBR1-262 |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present | | RBR1-263 |
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBR1-264 |
| - Downlink transport channel type | | DCH | | RBR1-265 |
| - DL Transport channel identity | | 10 | | RBR1-266 |
| - CHOICE DL parameters | | Same as UL | | RBR1-267 |
| - Uplink transport channel type | | DCH | | RBR1-268 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------|--|---------|-----------|
| <ul style="list-style-type: none"> - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | A3 | 5 | Rel-5 | RBR1-269 |
| | | Not Present | | RBR1-270 |
| | | DCH | | RBR1-271 |
| | | 6 | | RBR1-272 |
| | | Explicit | | RBR1-273 |
| | | Dedicated transport channel | | RBR1-274 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-275 |
| | | (This IE is repeated for TFI number.) | | RBR1-276 |
| | | Not Present | | RBR1-277 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-278 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-279 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-280 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-281 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-282 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-283 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-284 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-285 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-286 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-287 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-288 |
| <ul style="list-style-type: none"> - DCH quality target - BLER Quality value | A3 | -20 (-2.0) | Rel-5 | RBR1-289 |
| | | DCH | | RBR1-290 |
| | | 6 | | RBR1-291 |
| | | Explicit | | RBR1-292 |
| | | Dedicated transport channel | | RBR1-293 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-294 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-295 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-296 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-297 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-298 |
| <ul style="list-style-type: none"> - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | A1,A2,A3,A4,A5,A6 | Reference to clause 6.11.5 Parameter Set | Rel-5 | RBR1-299 |
| | | (This IE is repeated for TFI number.) | | RBR1-300 |
| | | Not Present | | RBR1-301 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-302 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-303 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-304 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-305 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-306 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-307 |
| | | Reference to clause 6.11.5 Parameter Set | | RBR1-308 |
| <ul style="list-style-type: none"> - DCH quality target - BLER Quality value | A1,A2,A3,A4,A5 | -20 (-2.0) | Rel-5 | RBR1-309 |
| | | [FFS] | | RBR1-310 |
| | | | | RBR1-311 |
| PhyCH information elements | | | | |
| Frequency info | A1,A2,A3,A4,A5 | | | RBR1-312 |
| | | | | RBR1-313 |
| <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) | | TDD | | RBR1-314 |
| | | Reference to clause 5.1 Test frequencies | | RBR1-315 |
| Frequency info | A6 | Not Present | | RBR1-316 |
| Multi-frequency Info | | Not Present | Rel-7 | RBR1-316a |
| MIMO parameters | | Not Present | Rel-8 | RBR1-316b |

| Information Element | Condition | Value/remark | Version | Index |
|---|---------------------------|---|---------|-----------|
| Control Channel DRX information | | Not Present | Rel-8 | RBR1-316c |
| SPS Information | | Not Present | Rel-8 | RBR1-316d |
| MU-MIMO info | | Not Present | Rel-10 | RBR1-316e |
| Uplink radio resources | | | | RBR1-317 |
| Maximum allowed UL TX power | A1,A2,A3,A4, A5,A6 | 33dBm | | RBR1-318 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | RBR1-319 |
| -Uplink DPCH power control info | | | | RBR1-320 |
| - CHOICE mode | | TDD | Rel-4 | RBR1-321 |
| - UL target SIR | | 25 dB | | RBR1-322 |
| - CHOICE <i>UL OL PC info</i> | | | | RBR1-324 |
| - Broadcast UL OL PC info | | Null | | RBR1-325 |
| - CHOICE mode | | TDD | | RBR1-326 |
| - Uplink Timing Advance Control | | | | RBR1-327 |
| - CHOICE <i>Timing Advance</i> | | Enabled | | RBR1-328 |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | | RBR1-329 |
| - Uplink synchronization parameters | | | | RBR1-330 |
| - Uplink synchronization step size | | 1 | | RBR1-331 |
| - Uplink synchronization frequency | | 1 | | RBR1-332 |
| - Synchronization parameters | | Not Present | | RBR1-333 |
| - UL CCTrCH List | | | | RBR1-334 |
| - TFCS ID | | 1 | | RBR1-335 |
| - UL Target SIR | | 25 dB | | RBR1-336 |
| - Time info | | | | RBR1-337 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBR1-338 |
| - Duration | | infinite | | RBR1-339 |
| - Common timeslot info | | | | RBR1-340 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBR1-341 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBR1-342 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBR1-343 |
| - Repetition period | | 1 | | RBR1-344 |
| - Repetition length | | empty | | RBR1-345 |
| - Uplink DPCH timeslots and code | | | | RBR1-346 |
| - Dynamic SF usage | | FALSE | | RBR1-347 |
| - First individual timeslot info | | | | RBR1-348 |
| - Timeslot number | | | | RBR1-349 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBR1-350 |
| - Timeslot number | | 1 | | RBR1-351 |
| - TFCI existence | | TRUE | | RBR1-352 |
| - Midamble shift and burst type | | | | RBR1-353 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBR1-354 |
| - Midamble allocation mode | | Default midamble | | RBR1-355 |
| - Midamble configuration | | 8 (k=16) | | RBR1-356 |
| - Midamble Shift | | Not Present | | RBR1-357 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBR1-358 |
| - Modulation | | QPSK | | RBR1-359 |
| - SS-TPC Symbols | | 1 | | RBR1-360 |
| - Additional TPC-SS Symbols | | Not present | | RBR1-361 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBR1-362 |
| - channelisation codes | | | | RBR1-363 |
| - CHOICE more timeslots | | No more timeslots | | RBR1-364 |
| - UL CCTrCH List to Remove | | Not present | | RBR1-365 |
| CHOICE channel requirement | A5, A6 | Not Present | | RBR1-366 |
| E-DCH Info | | Not Present | Rel-7 | RBR1-367 |
| Multi-carrier E-DCH Info for LCR TDD | | Not Present | Rel-10 | RBR1-367a |
| Downlink radio resources | | | | RBR1-368 |
| CHOICE Mode | A1,A2,A3,A4, A5,A6 | TDD | | RBR1-369 |
| - Downlink PDSCH information | | No date | | RBR1-370 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBR1-371 |
| Downlink information common for all radio links | A5, A6 | Not Present | | RBR1-372 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|---|---------------------------|--|--|--|
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE <i>mode</i> - TPC Step Size - MAC-d HFN initial value - CHOICE <i>mode</i> - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - TSTD indicator - Default DPCH Offset Value Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE <i>mode</i> - TPC Step Size - MAC-d HFN initial value - CHOICE <i>mode</i> - CHOICE <i>mode</i> - CHOICE <i>TDD option</i> - TSTD indicator - Default DPCH Offset Value - CHOICE <i>mode</i> - Default DPCH Offset Value Downlink information per radio link list - Downlink information for each radio link - Choice <i>mode</i> - Primary CCPCH info - Choice <i>mode</i> - Choice TDD Option - TSTD indicator - Cell parameters ID | A1, A2, A3 | Maintain Not Present | | RBR1-373 RBR1-374 RBR1-375 RBR1-376 RBR1-377 RBR1-378 RBR1-379 RBR1-380 RBR1-381 RBR1-382 RBR1-383 RBR1-384 RBR1-385 RBR1-386 | |
| | A4 | Initialize Not Present | | RBR1-387 RBR1-388 RBR1-389 RBR1-390 RBR1-391 RBR1-392 RBR1-393 RBR1-394 RBR1-395 RBR1-396 RBR1-397 RBR1-398 RBR1-399 RBR1-400 RBR1-401 | |
| | A1, A2, A3, A4 | | | RBR1-402 RBR1-403 RBR1-404 RBR1-405 RBR1-406 RBR1-407 RBR1-408 | |
| | | | Reference clause 6.1.4 Default settings for cell 1 | | |
| | - SCTD indicator - Downlink DPCH info for each RL - CHOICE <i>mode</i> - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving <i>mode</i> - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD <i>option</i> - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD <i>option</i> - Midamble allocation <i>mode</i> - Midamble configuration - Midamble Shift - CHOICE TDD <i>option</i> - Modulation - SS-TPC Symbols | Integer(1.8) | FALSE | | RBR1-409 RBR1-410 RBR1-411 RBR1-412 RBR1-413 |
| | | | TDD | | RBR1-414 |
| | | | Identity of this CCTrCh. Default value is 1 | | RBR1-415 |
| | | | Now | | RBR1-416 |
| | | | Infinite | | RBR1-417 |
| | | | Default value is "Frame" | | RBR1-418 |
| | | | Reference to clause 6 Parameter set | | RBR1-419 |
| | | | Reference to clause 6 Parameter set | | RBR1-420 |
| | | | 1 | | RBR1-421 |
| | | | empty | | RBR1-422 |
| | | | | | RBR1-423 |
| | | | | | RBR1-424 |
| | | | | | RBR1-425 |
| | | 1.28 Mcps TDD | | RBR1-426 | |
| | | 4 OR 5 OR 6 | | RBR1-427 | |
| | | TRUE | | RBR1-428 | |
| | | | | RBR1-429 | |
| | 1.28 Mcps TDD | | RBR1-430 | | |
| | Default midamble | | RBR1-431 | | |
| | 8 (k=16) | | RBR1-432 | | |
| | Not Present | | RBR1-433 | | |
| | 1.28 Mcps TDD | | RBR1-434 | | |
| | QPSK | | RBR1-435 | | |
| | 1 | | RBR1-436 | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|--------------------|-----------|
| - Additional TPC-SS Symbols | | Not present | | RBR1-437 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBR1-438 |
| - CHOICE codes representation | | | | RBR1-439 |
| - Channelisation codes bitmap | | Reference to clause 6.10 Parameter Set | | RBR1-440 |
| - CHOICE more timeslots | | No more timeslots | | RBR1-441 |
| - UL CCTrCH TPC List | | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | RBR1-442 |
| - UL TPC TFCS Identity | | | | RBR1-443 |
| - TFCS ID | | 1 | | RBR1-444 |
| - Shared Channel Indicator | | FALSE | | RBR1-445 |
| - DL CCTrCH List to Remove | | Not present | | RBR1-446 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBR1-447 |
| - E-AGCH Info | | Not Present | Rel-6 | RBR1-448 |
| - CHOICE <i>mode</i> | | TDD | Rel-7 | RBR1-449 |
| - E-HICH Information | | Not Present | Rel-7 | RBR1-450 |
| Downlink information per radio link list | A5 | | | RBR1-451 |
| - Downlink information for each radio link | | | | RBR1-452 |
| - Choice mode | | TDD | | RBR1-453 |
| - Primary CCPCH info | | | | RBR1-454 |
| - Choice mode | | TDD | | RBR1-455 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBR1-456 |
| - TSTD indicator | | FALSE | | RBR1-457 |
| - Cell parameters ID | | Reference clause 6.1.4 Default settings for cell 1 | | RBR1-458 |
| - SCTD indicator | | FALSE | | RBR1-459 |
| - Downlink DPCH info for each RL | | Not Present | | RBR1-460 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBR1-461 |
| - E-AGCH Info | | Not Present | Rel-6 | RBR1-462 |
| - CHOICE <i>mode</i> | | TDD | Rel-7 | RBR1-463 |
| - E-HICH Information | | Not Present | Rel-7 | RBR1-464 |
| Downlink information per radio link list | A6 | | | RBR1-465 |
| - Downlink information for each radio link | | Not Present | | RBR1-466 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBR1-467 |
| CELL_DCH measurement occasion info LCR | | Not Present | Rel-9 | RBR1-467a |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|-----------------------|--|---------|----------|
| Message Type | A1,A2,A3, A4,A5,A6 | | | RBR7-001 |
| UE Information elements | | | | RBR7-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBR7-003 |
| Integrity check info | | | | RBR7-004 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBR7-005 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBR7-006 |
| Integrity protection mode info | | Not Present | | RBR7-007 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------------|--|---------|--|
| Ciphering mode info | | Not Present | | RBR7-008 |
| Activation time | A1,A2,A3 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBR7-009 |
| Activation time | A4, A5,A6 | Not Present | | RBR7-010 |
| New U-RNTI | | MD Integer(0..255) default is 'now' | | RBR7-011 |
| New C-RNTI | A1, A2, A3, A4, | Not Present | | RBR7-012 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBR7-013 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | | RBR7-014 |
| New H-RNTI | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBR7-015 |
| CHOICE mode | | TDD | Rel-7 | RBR7-016 |
| - New E-RNTI | | Not Present | Rel-7 | RBR7-017 |
| RRC State indicator | A1, A2, A3, A4 | CELL_DCH Indicates to a UE the RRC state to be entered. | | RBR7-018 |
| RRC State indicator | A5, A6 | CELL_FACH | | RBR7-019 |
| UTRAN DRX cycle length coefficient | A1,A2,A3, A4,A5,A6 | Not Present A coefficient in the formula to count the paging occasions to be used by a specific UE | | RBR7-020 |
| CN information elements | | | | RBR7-021 |
| CN information info | | Not Present | | RBR7-022 |
| UTRAN mobility information elements | | | | RBR7-023 |
| URA identity | | Not Present | | RBR7-024 |
| CHOICE specification mode | | [FFS] | Rel-5 | RBR7-025 |
| RB information elements | | | | RBR7-026 |
| RAB information to reconfigure list | | Not Present | | RBR7-027 |
| RB information to reconfigure list | A1 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) 1 Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present (TM DTCH) 10 Not Present Not Present Not Present Not Present | | RBR7-028 RBR7-029 RBR7-030 RBR7-031 RBR7-032 RBR7-033 RBR7-034 RBR7-035 RBR7-036 RBR7-037 RBR7-038 RBR7-039 RBR7-040 RBR7-041 RBR7-042 RBR7-043 RBR7-044 RBR7-045 RBR7-046 RBR7-047 RBR7-048 RBR7-049 RBR7-050 RBR7-051 RBR7-052 RBR7-053 RBR7-054 RBR7-055 RBR7-056 RBR7-057 RBR7-058 RBR7-059 RBR7-060 RBR7-061 RBR7-062 RBR7-063 |
| - RB information to reconfigure | | | | |
| - RB identity | | | | |
| - PDCP info | | | | |
| - PDCP SN info | | | | |
| - RLC info | | | | |
| - RB mapping info | | | | |
| - RB stop/continue | | | | |
| - RB information to reconfigure | | | | |
| - RB identity | | | | |
| - PDCP info | | | | |
| - PDCP SN info | | | | |
| - RLC info | | | | |
| - RB mapping info | | | | |
| - RB stop/continue | | | | |
| - RB information to reconfigure | | | | |
| - RB identity | | | | |
| - PDCP info | | | | |
| - PDCP SN info | | | | |
| - RLC info | | | | |
| - RB mapping info | | | | |
| - RB stop/continue | | | | |
| - RB information to reconfigure | | | | |
| - RB identity | | | | |
| - PDCP info | | | | |
| - PDCP SN info | | | | |
| - RLC info | | | | |
| - RB mapping info | | | | |
| - RB stop/continue | | | | |
| - RB information to reconfigure | | | | |
| - RB identity | | | | |
| - PDCP info | | | | |
| - PDCP SN info | | | | |
| - RLC info | | | | |
| - RB mapping info | | | | |
| - RB stop/continue | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|-----------------|---|---------|----------|
| RB information to reconfigure list | A2 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) | | RBR7-064 |
| - RB information to reconfigure | | 1 | | RBR7-065 |
| - RB identity | | Not Present | | RBR7-066 |
| - PDCP info | | Not Present | | RBR7-067 |
| - PDCP SN info | | Not Present | | RBR7-068 |
| - RLC info | | Not Present | | RBR7-069 |
| - RB mapping info | | Not Present | | RBR7-070 |
| - RB stop/continue | | Not Present | | RBR7-071 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR7-072 |
| - RB identity | | 2 | | RBR7-073 |
| - PDCP info | | Not Present | | RBR7-074 |
| - PDCP SN info | | Not Present | | RBR7-075 |
| - RLC info | | Not Present | | RBR7-076 |
| - RB mapping info | | Not Present | | RBR7-077 |
| - RB stop/continue | | Not Present | | RBR7-078 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR7-079 |
| - RB identity | | 3 | | RBR7-080 |
| - PDCP info | | Not Present | | RBR7-081 |
| - PDCP SN info | | Not Present | | RBR7-082 |
| - RLC info | | Not Present | | RBR7-083 |
| - RB mapping info | | Not Present | | RBR7-084 |
| - RB stop/continue | | Not Present | | RBR7-085 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR7-086 |
| - RB identity | | 4 | | RBR7-087 |
| - PDCP info | | Not Present | | RBR7-088 |
| - PDCP SN info | | Not Present | | RBR7-089 |
| - RLC info | | Not Present | | RBR7-090 |
| - RB mapping info | | Not Present | | RBR7-091 |
| - RB stop/continue | | Not Present | | RBR7-092 |
| - RB information to reconfigure | | (TM DTCH) | | RBR7-093 |
| - RB identity | | 10 | | RBR7-094 |
| - PDCP info | | Not Present | | RBR7-095 |
| - PDCP SN info | | Not Present | | RBR7-096 |
| - RLC info | | Not Present | | RBR7-097 |
| - RB mapping info | | Not Present | | RBR7-098 |
| - RB stop/continue | | Not Present | | RBR7-099 |
| - RB information to reconfigure | | (TM DTCH) | | RBR7-100 |
| - RB identity | | 11 | | RBR7-101 |
| - PDCP info | | Not Present | | RBR7-102 |
| - PDCP SN info | | Not Present | | RBR7-103 |
| - RLC info | | Not Present | | RBR7-104 |
| - RB mapping info | | Not Present | | RBR7-105 |
| - RB stop/continue | | Not Present | | RBR7-106 |
| - RB information to reconfigure | | (TM DTCH) | | RBR7-107 |
| | | (This IE is needed for 12.2 kbps and 10.2 kbps) | | |
| - RB identity | | 12 | | RBR7-108 |
| - PDCP info | | Not Present | | RBR7-109 |
| - PDCP SN info | | Not Present | | RBR7-110 |
| - RLC info | | Not Present | | RBR7-111 |
| - RB mapping info | | Not Present | | RBR7-112 |
| - RB stop/continue | | Not Present | | RBR7-113 |
| RB information to reconfigure list | A3,A4,A5, A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) | | RBR7-114 |
| - RB information to reconfigure | | 1 | | RBR7-115 |
| - RB identity | | Not Present | | RBR7-116 |
| - PDCP info | | Not Present | | RBR7-117 |
| - PDCP SN info | | Not Present | | RBR7-118 |
| - RLC info | | Not Present | | RBR7-119 |
| - RB mapping info | | Not Present | | RBR7-120 |
| - RB stop/continue | | Not Present | | RBR7-121 |
| - RB information to reconfigure | | (AM DCCH for RRC) | | RBR7-122 |
| - RB identity | | 2 | | RBR7-123 |
| - PDCP info | | Not Present | | RBR7-124 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------------------|---|---------|----------|
| - PDCP SN info | | Not Present | | RBR7-125 |
| - RLC info | | Not Present | | RBR7-126 |
| - RB mapping info | | Not Present | | RBR7-127 |
| - RB stop/continue | | Not Present | | RBR7-128 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT High priority) | | RBR7-129 |
| - RB identity | | 3 | | RBR7-130 |
| - PDCP info | | Not Present | | RBR7-131 |
| - PDCP SN info | | Not Present | | RBR7-132 |
| - RLC info | | Not Present | | RBR7-133 |
| - RB mapping info | | Not Present | | RBR7-134 |
| - RB stop/continue | | Not Present | | RBR7-135 |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) | | RBR7-136 |
| - RB identity | | 4 | | RBR7-137 |
| - PDCP info | | Not Present | | RBR7-138 |
| - PDCP SN info | | Not Present | | RBR7-139 |
| - RLC info | | Not Present | | RBR7-140 |
| - RB mapping info | | Not Present | | RBR7-141 |
| - RB stop/continue | | Not Present | | RBR7-142 |
| - RB information to reconfigure | | (AM DTCH) | | RBR7-143 |
| - RB identity | | 20 | | RBR7-144 |
| - PDCP info | | Not Present | | RBR7-145 |
| - PDCP SN info | | Not Present | | RBR7-146 |
| - RLC info | | Not Present | | RBR7-147 |
| - RB mapping info | | Not Present | | RBR7-148 |
| - RB stop/continue | | Not Present | | RBR7-149 |
| RB information to be affected | A1, A2, A3,A4,A5, A6 | Not Present | | RBR7-150 |
| TrCH Information Elements | | | | RBR7-151 |
| Uplink transport channels | | | | RBR7-152 |
| UL Transport channel information for all transport channels | A1, A2, A5,A6 | Not Present | | RBR7-153 |
| UL Transport channel information for all transport channels | A3, A4 | | | RBR7-154 |
| - PRACH TFCS | | Not Present | | RBR7-155 |
| - CHOICE mode | | TDD | | RBR7-156 |
| - Individual UL CTrCH information | | | | RBR7-157 |
| - UL TFCS Identity | | | | RBR7-158 |
| - TFCS ID | | 1 | | RBR7-159 |
| - Shared Channel Indicator | | FALSE | | RBR7-160 |
| - UL TFCS | | | | RBR7-161 |
| - CHOICE <i>TFCS signalling</i> | | Normal (another option "split" only for FDD) | | RBR7-162 |
| - TFCS Field 1 Information | | | | RBR7-163 |
| - CHOICE <i>TFCS representation</i> | | Complete reconfiguration | | RBR7-164 |
| information | | | | RBR7-165 |
| - TFCS complete reconfiguration | | | | RBR7-165 |
| - CHOICE <i>CTFC Size</i> | | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. | | RBR7-166 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11 Parameter Set | | RBR7-167 |
| - CTFC | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-168 |
| - Power offset information | | | | RBR7-169 |
| - CHOICE Gain Factors | | Computed Gain Factors (The last TFC is set to Signalled Gain Factors) | | RBR7-170 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBR7-171 |
| - CHOICE Gain Factors | | Signalled Gain Factors (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBR7-172 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|--|---------|--|
| - CHOICE <i>mode</i> - Gain Factor β_d - Reference TFC ID - CHOICE <i>mode</i> | | TDD 15 0 Integer(0.. 3) TDD | | RBR7-173 RBR7-174 RBR7-175 RBR7-176 |
| - TFC subset | | | | RBR7-177 |
| - CHOICE <i>Subset representation</i> | | Minimum allowed Transport format combination index | | RBR7-178 |
| - Allowed transport format combination list | | Not present | | RBR7-179 |
| - Non-allowed transport format combination list | | Not present | | RBR7-180 |
| - Non-allowed transport format combination list | | Not present | | RBR7-181 |
| - Full transport format combination set | | Not present | | RBR7-182 |
| - TFC subset list | | Not present | | RBR7-183 |
| Deleted TrCH information list | | | | RBR7-184 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5, A6 | Not Present | | RBR7-185 |
| Added or Reconfigured TrCH information list | | | | RBR7-186 |
| Added or Reconfigured UL TrCH information | A1, A2, A5, A6 | Not Present | | RBR7-187 |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 5 | | RBR7-188 |
| - Uplink transport channel type | | | | RBR7-189 |
| - UL Transport channel identity | | | | RBR7-190 |
| - TFS | | | | RBR7-191 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR7-192 |
| - Dynamic Transport format information | | | | RBR7-193 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-194 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR7-195 |
| - Transmission Time Interval | | Not Present | | RBR7-196 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-197 |
| - CHOICE Logical Channel list | | All | | RBR7-198 |
| - Semi-static Transport Format information | | | | RBR7-199 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-200 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-201 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-202 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-203 |
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-204 |
| - Uplink transport channel type | | DCH | | RBR7-205 |
| - UL Transport channel identity | | 1 | | RBR7-206 |
| - TFS | | | | RBR7-207 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBR7-208 |
| - Dynamic Transport format information | | | | RBR7-209 |
| - RLC Size | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-210 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBR7-211 |
| - Transmission Time Interval | | Not Present | | RBR7-212 |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-213 |
| - CHOICE Logical Channel list | | All | | RBR7-214 |
| - Semi-static Transport Format information | | | | RBR7-215 |
| - Transmission time interval | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-216 |
| - Type of channel coding | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-217 |
| - Coding Rate | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-218 |
| - Rate matching attribute | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-219 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------|---|---------|--|
| - CRC size | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-220 |
| Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | A3 | (DCH for DTCH) DCH 1 Dedicated transport channels Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set All Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-221 RBR7-222 RBR7-223 RBR7-224 RBR7-225 RBR7-226 RBR7-227 RBR7-228 RBR7-229 RBR7-230 RBR7-231 RBR7-232 RBR7-233 RBR7-234 RBR7-235 RBR7-236 RBR7-237 |
| CHOICE mode - (no data) | A1,A2,A3, A4,A5,A6 | TDD | | RBR7-238 RBR7-239 |
| Downlink transport channels | | | | RBR7-240 |
| DL Transport channel information common for all transport channel | A1, A2, A5, A6 | Not Present | | RBR7-241 |
| DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE <i>DL parameters</i> - DL TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 Information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - CTFC - Power offset information | A3,A4 | Not Present TDD Independent Normal (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard') | | RBR7-242 RBR7-243 RBR7-244 RBR7-245 RBR7-246 RBR7-247 RBR7-248 RBR7-249 RBR7-250 RBR7-251 RBR7-252 RBR7-253 RBR7-254 RBR7-255 RBR7-256 RBR7-257 RBR7-258 |
| Deleted TrCH information list | | | | RBR7-259 |
| Deleted DL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present | | RBR7-260 |
| Added or Reconfigured TrCH information list | | | | RBR7-261 |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present | | RBR7-262 |
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBR7-263 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|--|---------|--|
| <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | <p>DCH 10 Same as UL DCH 5 Not Present DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set -20 (-2.0)</p> | | <p>RBR7-264 RBR7-265 RBR7-266 RBR7-267 RBR7-268 RBR7-269 RBR7-270 RBR7-271 RBR7-272 RBR7-273 RBR7-274 RBR7-275 RBR7-276 RBR7-277 RBR7-278 RBR7-279 RBR7-280 RBR7-281 RBR7-282 RBR7-283 RBR7-284 RBR7-285 RBR7-286 RBR7-287 RBR7-288 RBR7-289</p> |
| <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | A3 | <p>DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set -20 (-2.0)</p> | | <p>RBR7-290 RBR7-291 RBR7-292 RBR7-293 RBR7-294 RBR7-295 RBR7-296 RBR7-297 RBR7-298 RBR7-299 RBR7-300 RBR7-301 RBR7-302 RBR7-303 RBR7-304 RBR7-305 RBR7-306 RBR7-307 RBR7-308 RBR7-309</p> |
| Preconfiguration | A1,A2,A3, A4,A5,A6 | [FFS] | Rel-5 | RBR7-310 |
| PhyCH information elements | | | | RBR7-311 |
| <p>Frequency info</p> <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) | A1,A2,A3, A4,A5 | TDD Reference to clause 5.1 Test | | <p>RBR7-312 RBR7-313 RBR7-314</p> |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------|---|---------|----------|
| | | frequencies | | |
| Frequency info | A6 | Not Present | | RBR7-315 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBR7-316 |
| DTX-DRX information | | Not Present | Rel-7 | RBR7-317 |
| HS-SCCH less information | | Not Present | Rel-7 | RBR7-318 |
| MIMO parameters | | Not Present | Rel-7 | RBR7-319 |
| Uplink radio resources | | | | RBR7-320 |
| Maximum allowed UL TX power | A1,A2,A3, A4,A5,A6 | 33dBm | | RBR7-321 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | RBR7-322 |
| -Uplink DPCH power control info | | TDD | | RBR7-323 |
| - CHOICE mode | | 6 | | RBR7-324 |
| - UL target SIR | | Individually Signalled | | RBR7-325 |
| - CHOICE <i>UL OL PC info</i> | | 7.68 Mcps TDD | Rel-7 | RBR7-326 |
| - CHOICE TDD option | | Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-327 |
| - Individual timeslot interference info | | | | RBR7-328 |
| - Individual timeslot interference | | | | RBR7-329 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBR7-330 |
| - Timeslot number | | As required by, Reference to TS34.108 clause 6.11 Parameter Set | | RBR7-331 |
| - TDD UL interference | | As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm) | | RBR7-332 |
| - Primary CCPCH Tx Power | | 18 Integer(6..43) (-70 dBm Received if pathloss not specified) | | RBR7-333 |
| - CHOICE mode | | TDD | | RBR7-334 |
| - Uplink Timing Advance Control | | Enabled | | RBR7-335 |
| - CHOICE <i>Timing Advance</i> | | 7.68 Mcps TDD (Default) | Rel-7 | RBR7-336 |
| - CHOICE <i>TDD option</i> | | | | RBR7-337 |
| - UL CCTrCH List | | | | RBR7-338 |
| - TFCS ID | | 1 | | RBR7-339 |
| - UL Target SIR | | Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set. | | RBR7-340 |
| - Time info | | | | RBR7-341 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBR7-342 |
| - Duration | | infinite | | RBR7-343 |
| - Common timeslot info | | | | RBR7-344 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBR7-345 |
| - TFCI coding | | Reference to TS34.108 clause 6 Parameter set | | RBR7-346 |
| - Puncturing limit | | Reference to TS34.108 clause 6 Parameter set | | RBR7-347 |
| - Repetition period | | 1 | | RBR7-348 |
| - Repetition length | | empty | | RBR7-349 |
| - Uplink DPCH timeslots and code | | | | RBR7-350 |
| - Dynamic SF usage | | FALSE | | RBR7-351 |
| - First individual timeslot info | | | | RBR7-352 |
| - Timeslot number | | | | RBR7-353 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBR7-354 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBR7-355 |
| - TFCI existence | | TRUE | | RBR7-356 |
| - Midamble shift and burst type | | | | RBR7-357 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBR7-358 |
| - CHOICE <i>Burst Type</i> | | Type 1 | | RBR7-359 |
| - Midamble allocation mode | | Default midamble | | RBR7-360 |
| - Midamble configuration | | 8 | | RBR7-361 |
| - Midamble Shift | | Not Present | | RBR7-362 |
| - CHOICE TDD option | | 7.68 Mcps TDD (No Data) | Rel-4 | RBR7-363 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter | | RBR7-364 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---------------------------|--|---------|----------|
| - channelisation codes | | Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | RBR7-365 |
| - CHOICE more timeslots | | No more timeslots (No Data) | | RBR7-366 |
| - UL CCTrCH List to Remove | | Not present | | RBR7-367 |
| CHOICE channel requirement | A5, A6 | Not Present | | RBR7-368 |
| E-DCH info | | Not Present | Rel-6 | RBR7-369 |
| Downlink radio resources | | | | RBR7-370 |
| CHOICE Mode | A1,A2,A3, A4,A5,A6 | TDD | | RBR7-371 |
| - Downlink PDSCH information | | No date | | RBR7-372 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6 | Not Present | Rel-5 | RBR7-373 |
| Downlink information common for all radio links | A5, A6 | Not Present | | RBR7-374 |
| Downlink information common for all radio links | A1, A2, A3 | | | RBR7-375 |
| - Downlink DPCH info common for all RL | | Maintain | | RBR7-376 |
| - Timing indication | | Not Present | | RBR7-377 |
| - CFN-targetSFN frame offset | | | | RBR7-378 |
| - Downlink DPCH power control information | | | | RBR7-379 |
| - CHOICE mode | | TDD | | RBR7-380 |
| - TPC Step Size | | 1 | | RBR7-381 |
| - MAC-d HFN initial value | | Not Present | | RBR7-382 |
| - CHOICE mode | | TDD | | RBR7-383 |
| - CHOICE mode | | TDD | | RBR7-384 |
| - CHOICE TDD option | | 7.68 Mcps TDD (No Data) | Rel-7 | RBR7-385 |
| - Default DPCH Offset Value | | Not Present | | RBR7-386 |
| Downlink information common for all radio links | | | | RBR7-387 |
| - Downlink DPCH info common for all RL | | Initialise | | RBR7-388 |
| - Timing indication | | Not Present | | RBR7-389 |
| - CFN-targetSFN frame offset | | | | RBR7-390 |
| - Downlink DPCH power control information | | | | RBR7-391 |
| - CHOICE mode | | TDD | | RBR7-392 |
| - TPC Step Size | | 1 | | RBR7-393 |
| - MAC-d HFN initial value | | Not Present | | RBR7-394 |
| - CHOICE mode | | TDD | | RBR7-395 |
| - CHOICE mode | | TDD | | RBR7-396 |
| - CHOICE TDD option | | 7.68 Mcps TDD (no Data) | Rel-7 | RBR7-397 |
| - Default DPCH Offset Value | | | | RBR7-398 |
| - CHOICE mode | | TDD | | RBR7-399 |
| - Default DPCH Offset Value | | 0 | | RBR7-400 |
| Downlink information per radio link list | A1, A2, A3, A4 | | | RBR7-401 |
| - Downlink information for each radio link | | | | RBR7-402 |
| - Choice mode | | TDD | | RBR7-403 |
| - Primary CCPCH info | | | | RBR7-404 |
| - Choice mode | | TDD | | RBR7-405 |
| - Choice TDD Option | | 7.68 Mcps TDD | Rel-7 | RBR7-406 |
| - CHOICE SyncCase | | Sync Case 1 | | RBR7-407 |
| - Timeslot | | Reference clause 6.1.4 Default settings for cell 1 | | RBR7-408 |
| - SCTD indicator | | FALSE | | RBR7-409 |
| - Downlink DPCH info for each RL | | | | RBR7-410 |
| - CHOICE mode | | 7.68 Mcps TDD | Rel-7 | RBR7-411 |
| - DL CCTrCh List | | | | RBR7-412 |
| - TFCS ID | | Identity of this CCTrCh. Default value is 1 | | RBR7-413 |
| - Time info | | | | RBR7-414 |
| - Activation time | | Now | | RBR7-415 |
| - Duration | | Infinite | | RBR7-416 |
| - Common timeslot info | | | | RBR7-417 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBR7-418 |
| - TFCI coding | | Reference to TS34.108 clause 6 Parameter set | | RBR7-419 |
| - Puncturing limit | | Reference to TS34.108 clause 6 Parameter set | | RBR7-420 |
| - Repetition period | | 1 | | RBR7-421 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|--------------------|--|
| VHCR - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number | | empty | Rel-7 | RBR7-422 RBR7-423 |
| | | 7.68 Mcps TDD | Rel-7 | RBR7-424 RBR7-425 RBR7-426 |
| VHCR - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE <i>Burst Type</i> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH | | 4 OR 5 OR 6 TRUE 7.68 Mcps TDD Type 1 Default midamble 8 Not Present | Rel-7 | RBR7-427 RBR7-428 RBR7-429 RBR7-430 RBR7-431 RBR7-432 RBR7-433 RBR7-434 |
| | | 7.68 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present | Rel-7 | RBR7-435 RBR7-436 |
| | | | R99 and Rel-4 only | RBR7-437 RBR7-438 RBR7-439 RBR7-440 RBR7-441 RBR7-442 RBR7-443 RBR7-444 RBR7-445 |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator | A5 | TDD TDD 7.68 Mcps TDD FALSE Reference clause 6.1.4 Default settings for cell 1 FALSE | Rel-7 | RBR7-446 RBR7-447 RBR7-448 RBR7-449 RBR7-450 RBR7-451 RBR7-452 RBR7-453 |
| - Downlink DPCH info for each RL | | Not Present | | RBR7-455 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBR7-456 |
| Downlink information per radio link list | A6 | | | RBR7-457 |
| - Downlink information for each radio link | | Not Present | | RBR7-458 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBR7-459 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE need for "Non speech in CS" |
| A2 | This IE need for "Speech in CS" |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message | |

| | | |
|---|--|-------|
| Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info CHOICE mode - CHOICE <i>TDD option</i> - UL Timing Advance COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronisation info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked TDD 3.84 Mcps TDD 0 Not checked Not checked Not checked | Rel-4 |
|---|--|-------|

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|---|---------|
| Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info CHOICE mode - CHOICE <i>TDD option</i> COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronization info | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked TDD 1.28 Mcps TDD (No data) Not checked Not checked Not checked | Rel-4 |

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|----------------|
| Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info CHOICE mode - CHOICE <i>TDD option</i> - Extended UL Timing Advance COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronisation info | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked TDD 7.68 Mcps TDD 0 Not checked Not checked Not checked | Rel-7 Rel-7 |

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element | Value/remark |
|---|--|
| Message Type | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message. |
| RRC transaction identifier | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |
| Radio bearers for which reconfiguration would have succeeded List | Not checked |

Contents of RADIO BEARER RELEASE message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------|---|---------|----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8 | | | RBL3-001 |
| | , A9, A10 | | Rel-5 | RBL3-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBL3-003 |
| Integrity check info | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. | | RBL3-004 |
| - message authentication code | | | | RBL3-005 |
| - RRC message sequence number | | | | RBL3-006 |
| Integrity protection mode info | | Not Present | | RBL3-007 |
| Ciphering mode info | | Not Present | | RBL3-008 |
| Activation time | A1, A2, A3, A7, A8 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBL3-009 |
| Activation time | A4, A5, A6 | Not Present | | RBL3-010 |
| | , A9, A10 | | Rel-5 | RBL3-011 |
| New U-RNTI | | Not Present | | RBL3-012 |
| New C-RNTI | A1,A2,A3,A4, A9 | Not Present | | RBL3-013 |
| | | | Rel-5 | RBL3-014 |
| New C-RNTI | A5, A6, A7, A8 | '1010 1010 1010 1010' | | RBL3-015 |
| | , A10 | | Rel-5 | RBL3-016 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL3-017 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL3-018 |
| | , A9, A10, | | Rel-5 | RBL3-019 |
| New Primary E-RNTI | | Not Present | Rel-6 | RBL3-020 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBL3-021 |
| RRC State indicator | A1,A2, A3, A4 | CELL_DCH | | RBL3-022 |
| | , A9 | | Rel-5 | RBL3-023 |
| RRC State indicator | A5, A6, A7, A8 | CELL_FACH | | RBL3-024 |
| | , A10 | | Rel-5 | RBL3-025 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A4, A5,A6, A7, A8 | Not Present | | RBL3-026 |
| | , A9, A10 | | Rel-5 | RBL3-027 |
| CN information info | | Not Present | | RBL3-028 |
| Signalling Connection release indication | | Not Present | | RBL3-029 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|---------|--|
| URA identity | | Not Present | | RBL3-030 |
| RAB information to reconfigure list | | Not Present | | RBL3-031 |
| RB information to release list RB information to release - RB identity | A1, A7 | 10 | | RBL3-032 RBL3-033 RBL3-034 |
| RB information to release list RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity | A2, A8 | 10 11 12 | | RBL3-035 RBL3-036 RBL3-037 RBL3-038 RBL3-039 RBL3-040 RBL3-041 |
| RB information to release list | A3, A4, A5, A6 | | | RBL3-042 |
| RB information to release - RB identity | | 20 | | RBL3-043 RBL3-044 |
| RB information to release - RB identity | A9, A10 | 25 | Rel-5 | RBL3-045 RBL3-046 |
| RB information to reconfigure list | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBL3-047 |
| RB information to be affected list | A1,A2, A3,A4,A5, A6, A7, A8 , A9, A10 | Not Present | Rel-5 | RBL3-048 RBL3-049 |
| Downlink counter synchronisation info | A1,A2,A3,A4 ,A5,A6, A7, A8 , A9, A10 | Not Present | Rel-5 | RBL3-050 RBL3-051 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 | TFCS reconfigured to fit the new transport channel configuration. | Rel-5 | RBL3-052 RBL3-053 |
| Deleted TrCH information list | A1,A2, A3, A5, A7, A8 , A9, A10 | | Rel-5 | RBL3-054 RBL3-055 |
| Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity | A1,A2, A3, A5, A7, A8 , A9, A10 A2, A8 A2, A8 | DCH 1 DCH 2 DCH 3 | Rel-5 | RBL3-056 RBL3-057 RBL3-058 RBL3-059 RBL3-060 RBL3-061 RBL3-062 RBL3-063 RBL3-064 RBL3-065 |
| Deleted TrCH information list | A4, A6 | Not Present | | RBL3-066 |
| Added or Reconfigured TrCH information list | A5, A6, A7, A8 , A10 | Not Present | Rel-5 | RBL3-067 RBL3-068 |
| Added or Reconfigured TrCH information list | A1, A2, A3, A4 , A9 | TrCHs (DCH for DCCH) | Rel-5 | RBL3-069 RBL3-070 |
| Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks | | DCH 5 Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not present Reference to TS34.108 clause 6.10 | | RBL3-071 RBL3-072 RBL3-073 RBL3-074 RBL3-075 RBL3-076 RBL3-077 RBL3-078 RBL3-079 RBL3-080 |

| Information Element | Condition | Value/remark | Version | Index | |
|---|--------------------------------|---|--------------------|----------|----------|
| <ul style="list-style-type: none"> - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | Parameter Set All (NULL) | | RBL3-081 | |
| | | Reference to TS34.108 clause 6.10 | | RBL3-082 | |
| | | Parameter Set | | RBL3-083 | |
| | | Reference to TS34.108 clause 6.10 | | RBL3-084 | |
| | | Parameter Set | | RBL3-085 | |
| | | Reference to TS34.108 clause 6.10 | | RBL3-086 | |
| | | Parameter Set | | RBL3-087 | |
| CHOICE <i>mode</i> | | TDD (No data) | R99 and Rel-4 only | RBL3-088 | |
| DL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. | | RBL3-089 | |
| | , A9, A10 | | Rel-5 | RBL3-090 | |
| Deleted TrCH information list - Deleted DL TrCH Information <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity - Deleted DL TrCH Information <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity - Deleted DL TrCH Information <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity | A1, A2, A3, A4, A5, A6, A7, A8 | DCH 6 | | RBL3-091 | |
| | , A9 | | | Rel-5 | RBL3-092 |
| | A2, A8 | | DCH 7 | | RBL3-093 |
| | A2, A8 | | DCH 8 | | RBL3-094 |
| | | | | | RBL3-095 |
| - Deleted DL TrCH Information - Downlink transport channel type - DL HS-DSCH MAC-d flow identity | A9, A10 | | Rel-5 | RBL3-096 | |
| | | HS-DSCH | | RBL3-097 | |
| | | 0 | | RBL3-098 | |
| Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information | | Not Present | | RBL3-099 | |
| | A5, A6, A7, A8 | | | RBL3-100 | |
| | , A10 | | Rel-5 | RBL3-101 | |
| - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1, A2, A3, A4 | 1 TrCHs (DCH for DCCH) | | RBL3-102 | |
| | | DCH | | RBL3-103 | |
| | | 10 | | RBL3-104 | |
| | | Same as UL | | RBL3-105 | |
| | | DCH | | RBL3-106 | |
| | | 5 | | RBL3-107 | |
| | | | | RBL3-108 | |
| | | | Not Present | | RBL3-109 |
| | | | | | RBL3-110 |
| | | | | | RBL3-111 |
| Frequency info | A1, A2, A3, A4, A5, A7, A8 | TDD Reference to clause 5.1 Test frequencies | | RBL3-112 | |
| | , A9, A10 | | Rel-5 | RBL3-113 | |
| - Choice mode - UARFCN (Nt) | | | | RBL3-114 | |
| Frequency info | A6 | Not Present | | RBL3-115 | |
| Maximum allowed UL TX power | | 33dBm | | RBL3-116 | |
| CHOICE <i>channel requirement</i> | A5, A6, A7, A8 | Not Present | R99 and Rel-4 only | RBL3-117 | |
| CHOICE <i>channel requirement</i> | A1, A2, A3, A4 | Uplink DPCH info | R99 and Rel-4 only | RBL3-118 | |
| Uplink DPCH info | A10 | Not Present | Rel-5 | RBL3-119 | |
| Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - Uplink Timing Advance Control | A9 | Not Present TDD Not Present | Rel-5 | RBL3-120 | |
| | | | | RBL3-121 | |
| | | | | RBL3-122 | |
| | | | | RBL3-123 | |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|-----------------------|----------|
| - UL CCTrCH List | | | | RBL3-129 |
| - TFCS ID | | 1 | | RBL3-130 |
| - UL Target SIR | | +20dB | | RBL3-131 |
| - Time info | | | | RBL3-132 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBL3-133 |
| - Duration | | Infinite | | RBL3-134 |
| - Common timeslot info | | | | RBL3-135 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL3-136 |
| - TFCI coding | | Reference to TS34.108 clause 6 Parameter set | | RBL3-137 |
| - Puncturing limit | | Reference to TS34.108 clause 6 Parameter set | | RBL3-138 |
| - Repetition period | | 1 | | RBL3-139 |
| - Repetition length | | | | RBL3-140 |
| - Uplink DPCH timeslots and code | | | | RBL3-141 |
| - Dynamic SF usage | | FALSE | | RBL3-142 |
| - First individual timeslot info | | | | RBL3-143 |
| - Timeslot number | | | | RBL3-144 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-145 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBL3-146 |
| - TFCI existence | | TRUE | | RBL3-147 |
| - Midamble shift and burst type | | | | RBL3-148 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-149 |
| - CHOICE <i>Burst Type</i> | | Type 1 | | RBL3-150 |
| - Midamble allocation mode | | Default midamble | | RBL3-151 |
| - Midamble configuration | | 16 | | RBL3-152 |
| - Midamble Shift | | Not Present | | RBL3-153 |
| - CHOICE TDD option | | 3.84 Mcps TDD (no data) | | RBL3-154 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | RBL3-155 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | RBL3-156 |
| - CHOICE more timeslots | | No more timeslots | | RBL3-157 |
| - UL CCTrCH List to Remove | | Not present | | RBL3-158 |
| E-DCH Info | Not Present | | Rel-6 | RBL3-159 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8 | TDD | R99 and Rel-4 only | RBL3-160 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | RBL3-161 |
| Downlink information common for all radio links | A5, A6, A7, A8 , A10 | Not Present | | RBL3-162 |
| | | | Rel-5 | RBL3-163 |
| Downlink information common for all radio links | A1, A2, A3 , A9 | | | RBL3-164 |
| - CHOICE DPCH info | | Downlink DPCH info common for all RL | Rel-5 Rel-6 | RBL3-165 |
| - Downlink DPCH info common for all RL | | | | RBL3-166 |
| - Timing indication | | Maintain | | RBL3-167 |
| - CFN-targetSFN frame offset | | Not Present | | RBL3-168 |
| - Downlink DPCH power control information | | | | RBL3-169 |
| - CHOICE mode | | TDD | | RBL3-170 |
| - TPC Step Size | | 1 | | RBL3-171 |
| - MAC-d HFN initial value | | Not Present | | RBL3-172 |
| - CHOICE mode | | TDD | | RBL3-173 |
| - CHOICE mode | | TDD | | RBL3-174 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-175 |
| - Default DPCH Offset Value | | Not Present | | RBL3-176 |
| | | | | RBL3-177 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------|---|---------|----------------------|
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL3-178 |
| Downlink information common for all radio links - CHOICE DPCH info | A4 | Downlink DPCH info common for all RL | Rel-6 | RBL3-179 RBL3-180 |
| - Downlink DPCH info common for all RL | | Initialise | | RBL3-181 |
| - Timing indication | | Not Present | | RBL3-182 |
| - CFN-targetSFN frame offset | | | | RBL3-183 |
| - Downlink DPCH power control information | | | | RBL3-184 |
| - CHOICE mode | | TDD | | RBL3-185 |
| - TPC Step Size | | 1 | | RBL3-186 |
| - MAC-d HFN initial value | | Not Present | | RBL3-187 |
| - CHOICE mode | | TDD | | RBL3-188 |
| - CHOICE mode | | TDD | | RBL3-189 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-190 |
| - Default DPCH Offset Value | | | | RBL3-191 |
| - CHOICE mode | | TDD | | RBL3-192 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | RBL3-193 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL3-194 |
| Downlink information per radio link list | A1, A2, A3, A4 | | | RBL3-195 |
| - Downlink information for each radio link | , A9 | | Rel-5 | RBL3-196 |
| - Choice mode | | TDD | | RBL3-197 |
| - Primary CCPCH info | | | | RBL3-198 |
| - Choice mode | | TDD | | RBL3-199 |
| - Choice TDD Option | | 3.84 Mcps TDD | | RBL3-200 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | | RBL3-201 |
| | | Integer(0..127) | | RBL3-202 |
| - SCTD indicator | | FALSE | | RBL3-203 |
| - CHOICE DPCH info | | Downlink DPCH info for each RL | Rel-6 | RBL3-204 |
| - Downlink DPCH info for each RL | | | | RBL3-205 |
| - CHOICE mode | | TDD | | RBL3-206 |
| - DL CCTrCh List | | | | RBL3-207 |
| - TFCS ID | | 2 Integer(1.8) | | RBL3-208 |
| - Time info | | | | RBL3-209 |
| - Activation time | | Now | | RBL3-210 |
| - Duration | | Infinite | | RBL3-211 |
| - Common timeslot info | | | | RBL3-212 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL3-213 |
| - TFCI coding | | Reference to TS34.108 clause 6 Parameter set | | RBL3-214 |
| - Puncturing limit | | Reference to TS34.108 clause 6 Parameter set | | RBL3-215 |
| - Repetition period | | 1 | | RBL3-216 |
| - Repetition length | | NULL | | RBL3-217 |
| - Downlink DPCH timeslots and codes | | | | RBL3-218 |
| - First individual timeslot info | | | | RBL3-219 |
| - Timeslot number | | | | RBL3-220 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-221 |
| - Timeslot number | | 4 OR 5 OR 6 | | RBL3-222 |
| - TFCI existence | | TRUE | | RBL3-223 |
| - Midamble shift and burst type | | | | RBL3-224 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBL3-225 |
| - Midamble allocation mode | | Default midamble | | RBL3-226 |
| - Midamble configuration | | 16 | | RBL3-227 |
| - Midamble Shift | | Not Present | | RBL3-228 |
| - CHOICE TDD option | | 3.84 Mcps TDD (no data) | | RBL3-229 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | RBL3-230 |
| - CHOICE codes representation | | Bitmap | | RBL3-231 |
| - Channelisation codes bitmap | | Reference to TS34.108 clause 6.10 Parameter Set | | RBL3-232 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|--|--|
| - CHOICE more timeslots - UL CCTrCH TPC List - DL CCTrCH List to Remove - SCCPCH Information for FACH - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | | No more timeslots Default is all Not present Not Present Not present Not present Not present | R99 and Rel-4 only Rel-6 Rel-6 Rel-6 | RBL3-233 RBL3-234 RBL3-235 RBL3-236 RBL3-237 RBL3-238 RBL3-239 |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information - Downlink DPCH info for each RL - SCCPCH Information for FACH | A5 ,A7, A8 | TDD TDD 3.84 Mcps TDD FALSE Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not present Not present Not present Not Present Not Present | Rel-6 Rel-6 Rel-6 R99 and Rel-4 only | RBL3-240 RBL3-241 RBL3-242 RBL3-243 RBL3-244 RBL3-245 RBL3-246 RBL3-247 RBL3-248 RBL3-249 RBL3-250 RBL3-251 RBL3-252 RBL3-253 |
| Downlink information per radio link list | A6 , A10 | Not Present | Rel-5 | RBL3-254 RBL3-255 |
| MBMS PL Service Restriction Information | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBL3-256 |
| MBMS RB list released to change transfer mode | | Not Present | Rel-6 | RBL3-257 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE need for "Non speech in CS" | |
| A2 | This IE need for "Speech in CS" | |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS" | |
| A8 | This IE need for "Speech to CELL_FACH from CELL_DCH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS" | Rel-5 |

Contents of RADIO BEARER RELEASE message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------|---|--|---------|----------------------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 | | Rel-5 | RBL1-001 RBL1-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBL1-003 |
| Integrity check info | | | | RBL1-004 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBL1-005 |
| - RRC message sequence number | | SS provides the value of this IE, from its | | RBL1-006 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------------|----------------------------------|---------|-----------|
| | | internal counter. | | |
| Integrity protection mode info | | Not Present | | RBL1-007 |
| Ciphering mode info | | Not Present | | RBL1-008 |
| Activation time | A1, A2, A3, A7, A8 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBL1-009 |
| | , A9, A10 | | Rel-5 | RBL1-010 |
| Activation time | A4, A5, A6 | Not Present | | RBL1-011 |
| New U-RNTI | | Not Present | | RBL1-012 |
| New C-RNTI | A1,A2,A3,A 4 | Not Present | | RBL1-013 |
| | , A9 | | Rel-5 | RBL1-014 |
| New C-RNTI | A5, A6, A7, A8 | '1010 1010 1010 1010' | | RBL1-015 |
| | , A10 | | Rel-5 | RBL1-016 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL1-017 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL1-018 |
| | , A9, A10 | | Rel-5 | RBL1-019 |
| CHOICE <i>mode</i> | | TDD | Rel-7 | RBL1-020 |
| - New E-RNTI | | Not Present | Rel-7 | RBL1-021 |
| RRC State indicator | A1,A2, A3, A4 | CELL_DCH | | RBL1-022 |
| | , A9 | | Rel-5 | RBL1-023 |
| RRC State indicator | A5, A6, A7, A8 | CELL_FACH | | RBL1-024 |
| | , A10 | | Rel-5 | RBL1-025 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A 4, A5,A6, A7, A8 | Not Present | | RBL1-026 |
| | , A9, A10 | | Rel-5 | RBL1-027 |
| CN information info | | Not Present | | RBL1-028 |
| Signalling Connection release indication | | Not Present | | RBL1-029 |
| URA identity | | Not Present | | RBL1-030 |
| RNC support for change of UE capability | | Not Present | Rel-7 | RBL1-030a |
| RAB information to reconfigure list | | Not Present | | RBL1-031 |
| RB information to release list | A1, A7 | | | RBL1-032 |
| RB information to release | | | | RBL1-033 |
| - RB identity | | 10 | | RBL1-034 |
| RB information to release list | A2, A8 | | | RBL1-035 |
| RB information to release | | | | RBL1-036 |
| - RB identity | | 10 | | RBL1-037 |
| RB information to release | | | | RBL1-038 |
| - RB identity | | 11 | | RBL1-039 |
| RB information to release | | | | RBL1-040 |
| - RB identity | | 12 | | RBL1-041 |
| RB information to release list | A3, A4, A5, A6 | | | RBL1-042 |
| RB information to release | | | | RBL1-043 |
| - RB identity | | 20 | | RBL1-044 |
| RB information to release | A9, A10 | | Rel-5 | RBL1-045 |
| - RB identity | | 25 | | RBL1-046 |
| RB information to reconfigure list | | Not Present | Rel-6 | RBL1-047 |
| RB information to be affected list | A1,A2, A3,A4,A5, A6, A7, A8 | Not Present | | RBL1-048 |
| | , A9, A10 | | Rel-5 | RBL1-049 |
| Downlink counter synchronization info | A1,A2,A3,A 4,A5,A6, A7, A8 | Not Present | | RBL1-050 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------|---|---------|----------|
| | , A9, A10 | | Rel-5 | RBL1-051 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. | | RBL1-052 |
| | , A9, A10 | | Rel-5 | RBL1-053 |
| Deleted TrCH information list | A1,A2, A3, A5, A7, A8 | | | RBL1-056 |
| | , A9, A10 | | Rel-5 | RBL1-057 |
| Deleted UL TrCH Information | A1,A2, A3, A5, A7, A8 | | | RBL1-058 |
| | , A9, A10 | | Rel-5 | RBL1-059 |
| - Uplink transport channel type | | DCH | | RBL1-060 |
| - Transport channel identity | | 1 | | RBL1-061 |
| Deleted UL TrCH Information | A2, A8 | | | RBL1-062 |
| - Uplink transport channel type | | DCH | | RBL1-063 |
| - Transport channel identity | | 2 | | RBL1-064 |
| Deleted UL TrCH Information | A2, A8 | | | RBL1-065 |
| - Uplink transport channel type | | DCH | | RBL1-066 |
| - Transport channel identity | | 3 | | RBL1-067 |
| Deleted TrCH information list | A4, A6 | Not Present | | RBL1-068 |
| Added or Reconfigured TrCH information list | A5, A6, A7, A8 | Not Present | | RBL1-069 |
| | , A10 | | Rel-5 | RBL1-070 |
| Added or Reconfigured TrCH information list | A1, A2, A3, A4 | TrCHs (DCH for DCCH) | | RBL1-071 |
| | , A9 | | Rel-5 | RBL1-072 |
| Added or Reconfigured UL TrCH information | | | | RBL1-073 |
| - Uplink transport channel type | | DCH | | RBL1-074 |
| - UL Transport channel identity | | 5 | | RBL1-075 |
| - TFS | | | | RBL1-076 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBL1-077 |
| - Dynamic Transport format information | | | | RBL1-078 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBL1-079 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBL1-080 |
| - Transmission Time Interval | | Not present | | RBL1-081 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBL1-082 |
| - CHOICE Logical channel list | | All (NULL) | | RBL1-083 |
| - Semi-static Transport Format information | | | | RBL1-084 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBL1-085 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBL1-086 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBL1-087 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBL1-088 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBL1-089 |
| CHOICE <i>mode</i> | | TDD (No data) | | RBL1-090 |
| DL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. | | RBL1-091 |
| | , A9, A10 | | Rel-5 | RBL1-092 |
| - Deleted DL TrCH Information | A1, A2, A3, A5,A7, A8 | | | RBL1-096 |
| | | | | RBL1-097 |
| - Downlink transport channel type | | DCH | | RBL1-098 |
| - Transport channel identity | | 6 | | RBL1-099 |
| - Deleted DL TrCH Information | A2, A8 | | | RBL1-100 |
| - Downlink transport channel type | | DCH | | RBL1-101 |
| - Transport channel identity | | 7 | | RBL1-102 |
| - Deleted DL TrCH Information | A2, A8 | | | RBL1-103 |
| - Downlink transport channel type | | DCH | | RBL1-104 |
| - Transport channel identity | | 8 | | RBL1-105 |
| Deleted TrCH information list | A4, A6 | Not Present | | RBL1-106 |
| Deleted DL TrCH Information | A9, A10 | | Rel-5 | RBL1-107 |
| - Downlink transport channel type | | HS-DSCH | | RBL1-108 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBL1-109 |
| Added or Reconfigured TrCH information list | | | | RBL1-110 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------------------|---|---------|-----------|
| - Added or Reconfigured DL TrCH information | A5, A6, A7, A8 | Not Present | | RBL1-111 |
| | , A10 | | Rel-5 | RBL1-112 |
| - Added or Reconfigured DL TrCH information | A1, A2, A3, A4 | 1 TrCHs (DCH for DCCH) | | RBL1-113 |
| | , A9 | | Rel-5 | RBL1-114 |
| - Downlink transport channel type | | DCH | | RBL1-115 |
| - DL Transport channel identity | | 10 | | RBL1-116 |
| - CHOICE DL parameters | | Same as UL | | RBL1-117 |
| - Uplink transport channel type | | DCH | | RBL1-118 |
| - UL TrCH identity | | 5 | | RBL1-119 |
| - DCH quality target | | | | RBL1-120 |
| - BLER Quality value | | -20 (-2.0) | | RBL1-121 |
| Frequency info | A1, A2, A3, A4, A5, A7, A8 | | | RBL1-122 |
| | , A9, A10 | | Rel-5 | RBL1-123 |
| - Choice mode | | TDD | | RBL1-124 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | | RBL1-125 |
| Frequency info | A6 | Not Present | | RBL1-126 |
| Multi-frequency Info | | Not Present | Rel-7 | RBL1-126a |
| Control Channel DRX information | | Not Present | Rel-8 | RBL1-127 |
| SPS Information | | Not Present | Rel-8 | RBL1-128 |
| MIMO parameters | | Not Present | Rel-8 | RBL1-129 |
| MU-MIMO info | | Not Present | Rel-10 | RBL1-129a |
| Maximum allowed UL TX power | A1, A2, A3, A4, A7, A8 | 33dBm | | RBL1-130 |
| Maximum allowed UL TX power | A5, A6 | using the default value | | RBL1-131 |
| CHOICE channel requirement | A5, A6, A7, A8 | Not Present | | RBL1-132 |
| | , A10 | | Rel-5 | RBL1-133 |
| CHOICE channel requirement | A1, A2, A3, A4 | Uplink DPCH info | | RBL1-134 |
| | , A9 | | Rel-5 | RBL1-135 |
| - Uplink DPCH power control info | | Not Present | | RBL1-136 |
| - CHOICE mode | | TDD | | RBL1-137 |
| - Uplink Timing Advance Control | | Not Present | | RBL1-138 |
| - UL CCTrCH List | | | | RBL1-139 |
| - TFCS ID | | 1 | | RBL1-140 |
| - UL Target SIR | | Real (-11 .. 20 by step of 0.5dB) Reference to clause 6 Parameter set. | | RBL1-141 |
| - Time info | | | | RBL1-142 |
| - Activation time | | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBL1-143 |
| - Duration | | Infinite | | RBL1-144 |
| - Common timeslot info | | | | RBL1-145 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL1-146 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBL1-147 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBL1-148 |
| - Repetition period | | 1 | | RBL1-149 |
| - Repetition length | | | | RBL1-150 |
| - Uplink DPCH timeslots and code | | | | RBL1-151 |
| - Dynamic SF usage | | FALSE | | RBL1-152 |
| - First individual timeslot info | | | | RBL1-153 |
| - Timeslot number | | | | RBL1-154 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-155 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBL1-156 |
| - TFCI existence | | TRUE | | RBL1-157 |
| - Midamble shift and burst type | | | | RBL1-158 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-159 |
| - Midamble allocation mode | | Default midamble | | RBL1-160 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|---------|-----------|
| - Midamble configuration | | 8 (k=16) | | RBL1-161 |
| - Midamble Shift | | Not Present | | RBL1-162 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-163 |
| - Modulation | | QPSK | | RBL1-164 |
| - SS-TPC Symbols | | 1 | | RBL1-165 |
| - Additional TPC-SS Symbols | | Not present | | RBL1-166 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBL1-167 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBL1-168 |
| - CHOICE more timeslots | | No more timeslots | | RBL1-169 |
| - UL CCTrCH List to Remove | | Not present | | RBL1-170 |
| E-DCH Info | | Not Present | Rel-7 | RBL1-171 |
| Multi-carrier E-DCH Info for LCR TDD | | Not Present | Rel-10 | RBL1-171a |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TDD | | RBL1-172 |
| | | | Rel-5 | RBL1-173 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | RBL1-174 |
| Downlink information common for all radio links | A5, A6, A7, A8, A10 | Not Present | | RBL1-175 |
| | | | Rel-5 | RBL1-176 |
| Downlink information common for all radio links | A1, A2, A3, A9 | | | RBL1-177 |
| | | | Rel-5 | RBL1-178 |
| - Downlink DPCH info common for all RL | | | | RBL1-179 |
| - Timing indication | | Maintain | | RBL1-180 |
| - CFN-targetSFN frame offset | | Not Present | | RBL1-181 |
| - Downlink DPCH power control information | | | | RBL1-182 |
| - CHOICE mode | | TDD | | RBL1-183 |
| - TPC Step Size | | 1 | | RBL1-184 |
| - MAC-d HFN initial value | | Not Present | | RBL1-185 |
| - CHOICE mode | | TDD | | RBL1-186 |
| - CHOICE mode | | TDD | | RBL1-187 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-188 |
| - TSTD indicator | | FALSE | | RBL1-189 |
| - Default DPCH Offset Value | | Not Present | | RBL1-190 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL1-191 |
| Downlink information common for all radio links | A4 | | | RBL1-192 |
| - Downlink DPCH info common for all RL | | | | RBL1-193 |
| - Timing indication | | Initialize | | RBL1-194 |
| - CFN-targetSFN frame offset | | Not Present | | RBL1-195 |
| - Downlink DPCH power control information | | | | RBL1-196 |
| - CHOICE mode | | TDD | | RBL1-197 |
| - TPC Step Size | | 1 | | RBL1-198 |
| - MAC-d HFN initial value | | Not Present | | RBL1-199 |
| - CHOICE mode | | TDD | | RBL1-200 |
| - CHOICE mode | | TDD | | RBL1-201 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-202 |
| - TSTD indicator | | FALSE | | RBL1-203 |
| - Default DPCH Offset Value | | | | RBL1-204 |
| - CHOICE mode | | TDD | | RBL1-205 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | RBL1-206 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL1-207 |
| Downlink information per radio link list | A1, A2, A3, A4, A9 | | | RBL1-208 |
| | | | Rel-5 | RBL1-209 |
| - Downlink information for each radio link | | | | RBL1-210 |
| - Choice mode | | TDD | | RBL1-211 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------------|---|--------------------|----------|
| - Primary CCPCH info | | | | RBL1-212 |
| - Choice mode | | TDD | | RBL1-213 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBL1-214 |
| - TSTD indicator | | FALSE | | RBL1-215 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | RBL1-216 |
| - SCTD indicator | | FALSE | | RBL1-217 |
| - Downlink DPCH info for each RL | | | | RBL1-218 |
| - CHOICE mode | | TDD | | RBL1-219 |
| - DL CCTrCh List | | | | RBL1-220 |
| - TFCS ID | | 2 Integer(1.8) | | RBL1-221 |
| - Time info | | | | RBL1-222 |
| - Activation time | | Now | | RBL1-223 |
| - Duration | | Infinite | | RBL1-224 |
| - Common timeslot info | | | | RBL1-225 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL1-226 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBL1-227 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBL1-228 |
| - Repetition period | | 1 | | RBL1-229 |
| - Repetition length | | NULL | | RBL1-230 |
| - Downlink DPCH timeslots and codes | | | | RBL1-231 |
| - First individual timeslot info | | | | RBL1-232 |
| - Timeslot number | | | | RBL1-233 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-234 |
| - Timeslot number | | 4 OR 5 OR 6 | | RBL1-235 |
| - TFCI existence | | TRUE | | RBL1-236 |
| - Midamble shift and burst type | | | | RBL1-237 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-238 |
| - Midamble allocation mode | | Default midamble | | RBL1-239 |
| - Midamble configuration | | 8 (k=16) | | RBL1-240 |
| - Midamble Shift | | Not Present | | RBL1-241 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBL1-242 |
| - Modulation | | QPSK | | RBL1-243 |
| - SS-TPC Symbols | | 1 | | RBL1-244 |
| - Additional TPC-SS Symbols | | Not present | | RBL1-245 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBL1-246 |
| - CHOICE codes representation | | Bitmap | | RBL1-247 |
| - Channelisation codes bitmap | | Reference to clause 6.10 Parameter Set | | RBL1-248 |
| - CHOICE more timeslots | | No more timeslots | | RBL1-249 |
| - UL CCTrCH TPC List | | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | RBL1-250 |
| - DL CCTrCH List to Remove | | Not present | | RBL1-251 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBL1-252 |
| - E-AGCH Info | | Not Present | Rel-6 | RBL1-253 |
| - CHOICE mode | | TDD | Rel-7 | RBL1-254 |
| - E-HICH Information | | Not Present | Rel-7 | RBL1-255 |
| Downlink information per radio link list | A5 ,A7, A8 , A10 | | | RBL1-256 |
| | | | Rel-5 | RBL1-257 |
| - Downlink information for each radio link | | | | RBL1-258 |
| - Choice mode | | TDD | | RBL1-259 |
| - Primary CCPCH info | | | | RBL1-260 |
| - Choice mode | | TDD | | RBL1-261 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBL1-262 |
| - TSTD indicator | | FALSE | | RBL1-263 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | RBL1-264 |
| - SCTD indicator | | FALSE | | RBL1-265 |
| - Downlink DPCH info for each RL | | Not Present | | RBL1-266 |
| - SCCPCH Information for FACH | | Not Present | R99 and | RBL1-267 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--------------|------------|-----------|
| | | | Rel-4 only | |
| - E-AGCH Info | | Not Present | Rel-6 | RBL1-268 |
| - CHOICE <i>mode</i> | | TDD | Rel-7 | RBL1-269 |
| - E-HICH Information | | Not Present | Rel-7 | RBL1-270 |
| Downlink information per radio link list | A6 | Not Present | | RBL1-271 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBL1-272 |
| CELL_DCH measurement occasion info LCR | | Not Present | Rel-9 | RBL1-272a |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE need for "Non speech in CS" | |
| A2 | This IE need for "Speech in CS" | |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS" | |
| A8 | This IE need for "Speech to CELL_FACH from CELL_DCH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS" | Rel-5 |

Contents of RADIO BEARER RELEASE message: AM or UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------|--|---------|----------------------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8 | | | RBL7-001 |
| | , A9, A10 | | Rel-5 | RBL7-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBL7-003 |
| Integrity check info - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBL7-004 RBL7-005 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBL7-006 |
| Integrity protection mode info | | Not Present | | RBL7-007 |
| Ciphering mode info | | Not Present | | RBL7-008 |
| Activation time | A1, A2, A3, A7, A8 | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBL7-009 |
| Activation time | A4, A5, A6 | Not Present | | RBL7-010 |
| | , A9, A10 | | Rel-5 | RBL7-011 |
| New U-RNTI | | Not Present | | RBL7-012 |
| New C-RNTI | A1,A2,A3,A4 | Not Present | | RBL7-013 |
| | , A9 | | Rel-5 | RBL7-014 |
| New C-RNTI | A5, A6, A7, A8 | '1010 1010 1010 1010' | | RBL7-015 |
| | , A10 | | Rel-5 | RBL7-016 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL7-017 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBL7-018 |
| | , A9, A10, | | Rel-5 | RBL7-019 |
| CHOICE mode | | TDD | Rel-7 | RBL7-020 |
| - New E-RNTI | | Not Present | Rel-7 | RBL7-021 |
| RRC State indicator | A1,A2, A3, | CELL_DCH | | RBL7-022 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------------|---|---------|--|
| | A4 | | | |
| | , A9 | | Rel-5 | RBL7-023 |
| RRC State indicator | A5, A6, A7, A8 | CELL_FACH | | RBL7-024 |
| | , A10 | | Rel-5 | RBL7-025 |
| UTRAN DRX cycle length coefficient | A1,A2,A3,A4 ,A5,A6, A7, A8 | Not Present | | RBL7-026 |
| | , A9, A10 | | Rel-5 | RBL7-027 |
| CN information info | | Not Present | | RBL7-028 |
| Signalling Connection release indication | | Not Present | | RBL7-029 |
| URA identity | | Not Present | | RBL7-030 |
| RAB information to reconfigure list | | Not Present | | RBL7-031 |
| RB information to release list RB information to release - RB identity | A1, A7 | 10 | | RBL7-032 RBL7-033 RBL7-034 |
| RB information to release list RB information to release - RB identity | A2, A8 | 10 | | RBL7-035 RBL7-036 |
| RB information to release - RB identity | | 11 | | RBL7-037 RBL7-038 |
| RB information to release - RB identity | | 12 | | RBL7-039 RBL7-040 RBL7-041 |
| RB information to release list | A3, A4, A5, A6 | | | RBL7-042 |
| RB information to release - RB identity | | 20 | | RBL7-043 RBL7-044 |
| RB information to release - RB identity | A9, A10 | | Rel-5 | RBL7-045 |
| | | 25 | | RBL7-046 |
| RB information to reconfigure list | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBL7-047 |
| RB information to be affected list | A1,A2, A3,A4,A5, A6, A7, A8 | Not Present | | RBL7-048 |
| | , A9, A10 | | Rel-5 | RBL7-049 |
| Downlink counter synchronisation info | A1,A2,A3,A4 ,A5,A6, A7, A8 | Not Present | | RBL7-050 |
| | , A9, A10 | | Rel-5 | RBL7-051 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. | | RBL7-052 |
| | , A9, A10 | | Rel-5 | RBL7-053 |
| Deleted TrCH information list | A1,A2, A3, A5, A7, A8 | | | RBL7-054 |
| | , A9, A10 | | Rel-5 | RBL7-055 |
| Deleted UL TrCH Information | A1,A2, A3, A5, A7, A8 | | | RBL7-056 |
| | , A9, A10 | DCH 1 | Rel-5 | RBL7-057 RBL7-058 RBL7-059 RBL7-060 RBL7-061 RBL7-062 RBL7-063 RBL7-064 RBL7-065 |
| - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity | A2, A8 | DCH 2 | | |
| | A2, A8 | DCH 3 | | |
| Deleted TrCH information list | A4, A6 | Not Present | | RBL7-066 |
| Added or Reconfigured TrCH information list | A5, A6, A7, A8 | Not Present | | RBL7-067 |
| | , A10 | | Rel-5 | RBL7-068 |
| Added or Reconfigured TrCH information list | A1, A2, A3, A4 | TrCHs (DCH for DCCH) | | RBL7-069 |
| | , A9 | | Rel-5 | RBL7-070 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|--------------------------------|---|--------------------|-----------|----------|
| Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | DCH 5 | | RBL7-071 | |
| | | RBL7-072 | | | |
| | | RBL7-073 | | | |
| | | RBL7-074 | | | |
| | | RBL7-075 | | | |
| | | RBL7-076 | | | |
| | | RBL7-077 | | | |
| | | RBL7-078 | | | |
| | | RBL7-079 | | | |
| | | RBL7-080 | | | |
| | | RBL7-081 | | | |
| | | RBL7-082 | | | |
| | | RBL7-083 | | | |
| CHOICE <i>mode</i> | | TDD (No data) | R99 and Rel-4 only | RBL7-088 | |
| | | | | | |
| DL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. | | RBL7-089 | |
| | , A9, A10 | | | Rel-5 | RBL7-090 |
| Deleted TrCH information list - Deleted DL TrCH Information - Downlink transport channel type - Transport channel identity - Deleted DL TrCH Information - Downlink transport channel type - Transport channel identity - Deleted DL TrCH Information - Downlink transport channel type - Transport channel identity | A1, A2, A3, A4, A5, A6, A7, A8 | DCH 6 | Rel-5 | RBL7-091 | |
| | | | | , A9 | RBL7-092 |
| | | | | | RBL7-093 |
| | | | | | RBL7-094 |
| | | | | | RBL7-095 |
| - Deleted DL TrCH Information - Downlink transport channel type - DL HS-DSCH MAC-d flow identity | A2, A8 | DCH 7 | Rel-5 | RBL7-096 | |
| | | A2, A8 | | DCH 8 | RBL7-097 |
| - Deleted DL TrCH Information - Downlink transport channel type - DL HS-DSCH MAC-d flow identity | A9, A10 | HS-DSCH | Rel-5 | RBL7-098 | |
| | | 0 | | RBL7-099 | |
| | | | | RBL7-100 | |
| Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information | A5, A6, A7, A8 | Not Present | Rel-5 | RBL7-101 | |
| | | | | , A10 | RBL7-102 |
| - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1, A2, A3, A4 | 1 TrCHs (DCH for DCCH) | | RBL7-103 | |
| | | DCH | | RBL7-104 | |
| | | 10 | | RBL7-105 | |
| | | Same as UL | | RBL7-106 | |
| | | DCH | | RBL7-107 | |
| | | 5 | | RBL7-108 | |
| | | | | RBL7-109 | |
| | | -Not Present | | RBL7-110 | |
| Frequency info - Choice mode - UARFCN (Nt) | A1, A2, A3, A4, A5, A7, A8 | TDD Reference to clause 5.1 Test frequencies | Rel-5 | RBL7-111 | |
| | | | | , A9, A10 | RBL7-112 |
| | | | | | RBL7-113 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|--------------------|----------|
| Frequency info | A6 | Not Present | | RBL7-120 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBL7-121 |
| DTX-DRX information | | Not Present | Rel-7 | RBL7-122 |
| HS-SCCH less information | | Not Present | Rel-7 | RBL7-123 |
| MIMO parameters | | Not Present | Rel-7 | RBL7-124 |
| Maximum allowed UL TX power | | 33dBm | | RBL7-125 |
| CHOICE <i>channel requirement</i> | A5, A6 , A7, A8 | Not Present | R99 and Rel-4 only | RBL7-126 |
| CHOICE <i>channel requirement</i> | A1, A2, A3, A4 | Uplink DPCH info | R99 and Rel-4 only | RBL7-127 |
| Uplink DPCH info | A10 | Not Present | Rel-5 | RBL7-128 |
| Uplink DPCH info | A9 | | Rel-5 | RBL7-129 |
| - Uplink DPCH power control info | | Not Present | | RBL7-130 |
| - CHOICE mode | | TDD | | RBL7-131 |
| - Uplink Timing Advance Control | | Not Present | | RBL7-132 |
| - UL CCTrCH List | | | | RBL7-133 |
| - TFCS ID | | 1 | | RBL7-134 |
| - UL Target SIR | | +20dB | | RBL7-135 |
| - Time info | | | | RBL7-136 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBL7-137 |
| - Duration | | Infinite | | RBL7-138 |
| - Common timeslot info | | | | RBL7-139 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL7-140 |
| - TFCI coding | | Reference to TS34.108 clause 6.11 | | RBL7-141 |
| - Puncturing limit | | Parameter set | | RBL7-142 |
| - Repetition period | | Reference to TS34.108 clause 6.11 | | RBL7-143 |
| - Repetition length | | Parameter set | | RBL7-144 |
| - Choice TDD option | | 1 | | RBL7-145 |
| - Uplink DPCH timeslots and codes VHCR | | 7.68Mcps TDD | Rel-7 | RBL7-146 |
| - Dynamic SF usage | | FALSE | Rel-7 | RBL7-147 |
| - First individual timeslot info | | | | RBL7-148 |
| - Timeslot number | | | | RBL7-149 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBL7-150 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBL7-151 |
| - TFCI existence | | TRUE | | RBL7-152 |
| - Midamble shift and burst type | | | | RBL7-153 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBL7-154 |
| - CHOICE <i>Burst Type</i> | | Type 1 | | RBL7-155 |
| - Midamble allocation mode | | Default midamble | | RBL7-156 |
| - Midamble configuration | | 8 | | RBL7-157 |
| - Midamble Shift | | Not Present | | RBL7-158 |
| - CHOICE TDD option | | 7.68 Mcps TDD (no data) | | RBL7-159 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | | RBL7-160 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. | | RBL7-161 |
| - CHOICE more timeslots | | No more timeslots | | RBL7-162 |
| - UL CCTrCH List to Remove | | Not present | | RBL7-163 |
| E-DCH Info | Not Present | | Rel-6 | RBL7-164 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8 | TDD | R99 and Rel-4 only | RBL7-165 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 | RBL7-166 |
| Downlink information common for all radio links | A5, A6, A7, A8 | Not Present | | RBL7-167 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------|--|----------------|----------------------------------|
| | , A10 | | Rel-5 | RBL7-168 |
| Downlink information common for all radio links | A1, A2, A3, A9 | Downlink DPCH info common for all RL | Rel-5 Rel-6 | RBL7-169 RBL7-170 RBL7-171 |
| - CHOICE DPCH info | | | | |
| - Downlink DPCH info common for all RL | | Maintain | | RBL7-172 |
| - Timing indication | | Not Present | | RBL7-173 |
| - CFN-targetSFN frame offset | | | | RBL7-174 |
| - Downlink DPCH power control information | | | | RBL7-175 |
| - CHOICE mode | | TDD | | RBL7-176 |
| - TPC Step Size | | 1 | | RBL7-177 |
| - MAC-d HFN initial value | | Not Present | | RBL7-178 |
| - CHOICE mode | | TDD | | RBL7-179 |
| - CHOICE mode | | TDD | | RBL7-180 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBL7-181 |
| - Default DPCH Offset Value | | Not Present | | RBL7-182 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL7-183 |
| Downlink information common for all radio links | A4 | Downlink DPCH info common for all RL | Rel-6 | RBL7-184 RBL7-185 |
| - CHOICE DPCH info | | | | |
| - Downlink DPCH info common for all RL | | Initialise | | RBL7-186 |
| - Timing indication | | Not Present | | RBL7-187 |
| - CFN-targetSFN frame offset | | | | RBL7-188 |
| - Downlink DPCH power control information | | | | RBL7-189 |
| - CHOICE mode | | TDD | | RBL7-190 |
| - TPC Step Size | | 1 | | RBL7-191 |
| - MAC-d HFN initial value | | Not Present | | RBL7-192 |
| - CHOICE mode | | TDD | | RBL7-193 |
| - CHOICE mode | | TDD | | RBL7-194 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBL7-195 |
| - Default DPCH Offset Value | | | | RBL7-196 |
| - CHOICE mode | | TDD | | RBL7-197 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | RBL7-198 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBL7-199 |
| Downlink information per radio link list | A1, A2, A3, A4 | | | RBL7-200 |
| | , A9 | | Rel-5 | RBL7-201 |
| - Downlink information for each radio link | | | | RBL7-202 |
| - Choice mode | | TDD | | RBL7-203 |
| - Primary CCPCH info | | | | RBL7-204 |
| - Choice mode | | TDD | | RBL7-205 |
| - Choice TDD Option | | 7.68 Mcps TDD | | RBL7-206 |
| - Cell parameters ID | | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) | | RBL7-207 |
| | | Integer(0..127) | | |
| - SCTD indicator | | FALSE | | RBL7-208 |
| - CHOICE DPCH info | | Downlink DPCH info for each RL | Rel-6 | RBL7-209 |
| - Downlink DPCH info for each RL | | | | RBL7-210 |
| - CHOICE mode | | 7.68Mcps TDD | Rel-7 | RBL7-211 |
| - DL CCTrCh List | | | | RBL7-212 |
| - TFCS ID | | 2 Integer(1.8) | | RBL7-213 |
| - Time info | | | | RBL7-214 |
| - Activation time | | Now | | RBL7-215 |
| - Duration | | Infinite | | RBL7-216 |
| - Common timeslot info | | | | RBL7-217 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBL7-218 |
| - TFCl coding | | Reference to TS34.108 clause 6.11 | | RBL7-219 |
| | | Parameter set | | |
| - Puncturing limit | | Reference to TS34.108 clause 6.11 | | RBL7-220 |
| | | Parameter set | | |
| - Repetition period | | 1 | | RBL7-221 |
| - Repetition length | | NULL | | RBL7-222 |
| - Downlink DPCH timeslots and codes | | | Rel-7 | RBL7-223 |
| VHCR | | | | |
| - First individual timeslot info | | | | RBL7-224 |
| - Timeslot number | | | | RBL7-225 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBL7-226 |

| Information Element | Condition | Value/remark | Version | Index | |
|--|---|---|---------------------------------|--|----------|
| VHCR - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - DL CCTrCH List to Remove - SCCPCH Information for FACH - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | | 4 OR 5 OR 6 TRUE 7.68 Mcps TDD Default midamble 8 Not Present 7.68 Mcps TDD (no data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots Default is all Not present Not Present | Rel-7 Rel-7 Rel-7 | RBL7-227 RBL7-228 RBL7-229 RBL7-230 RBL7-231 RBL7-232 RBL7-233 RBL7-234 RBL7-235 | |
| | | | | RBL7-236 | |
| | | | | RBL7-237 | |
| | | | | RBL7-238 | |
| | | | | RBL7-239 | |
| | | | | RBL7-240 | |
| | | | | R99 and Rel-4 only | |
| | | | | RBL7-241 | |
| | | | | Rel-6 | |
| | | | | RBL7-242 | |
| | | | Rel-6 | | |
| | | | RBL7-243 | | |
| | | | Rel-6 | | |
| | | | RBL7-244 | | |
| Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information - Downlink DPCH info for each RL - SCCPCH Information for FACH | A5 ,A7, A8 | TDD | Rel-7 | RBL7-245 | |
| | | | | | RBL7-246 |
| | | | | | RBL7-247 |
| | | | | | RBL7-248 |
| | | | | | RBL7-249 |
| | | | | | RBL7-250 |
| | | | | | RBL7-251 |
| | | | | | RBL7-252 |
| | | | | | RBL7-253 |
| | | | | | Rel-6 |
| | | RBL7-254 | | | |
| | | Rel-6 | | | |
| | | RBL7-255 | | | |
| | | Rel-6 | | | |
| | | RBL7-256 | | | |
| | | Not Present | RBL7-257 | | |
| | | Not Present | RBL7-258 | | |
| Downlink information per radio link list | A6 | Not Present | | RBL7-259 | |
| | , A10 | | Rel-5 | RBL7-260 | |
| MBMS PL Service Restriction Information | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present | Rel-6 | RBL7-261 | |
| MBMS RB list released to change transfer mode | | Not Present | Rel-6 | RBL7-262 | |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE need for "Non speech in CS" | |
| A2 | This IE need for "Speech in CS" | |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS" | |
| A8 | This IE need for "Speech to CELL_FACH from CELL_DCH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS" | Rel-5 |

Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | 0 |
| Integrity check info | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| CN domain identity | CS domain or PS domain |
| NAS message | See Specific Message Content for each test case |

Contents of INITIAL DIRECT TRANSFER message: AM

| Information Element | Value/remark | Version |
|--------------------------------|--|---------|
| Message Type | | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| CN domain identity | CS domain or PS domain | |
| Intra Domain NAS Node Selector | Set to the same octet string as in the IMSI stored in the USIM card | |
| NAS message | Set according to that indicated in specific message content for each test case | |
| START | This IE is checked to see if it is present. | |
| Establishment cause | See the specific test case | Rel-5 |
| Measured results on RACH | Not checked | |

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD)

| Information Element | Value/remark | Version |
|---|----------------|---------|
| Message type | | Rel-6 |
| MBMS preferred frequency information | Not Present | Rel-6 |
| MBMS timers and counters | | Rel-6 |
| - T318 | 4000 ms | Rel-6 |
| MICH configuration information | | Rel-6 |
| - MICH Power offset | -5dB | Rel-6 |
| - CHOICE Mode | TDD | Rel-6 |
| - Timeslot Number | 1 | Rel-6 |
| - CHOICE TDD option | 3.84 Mcps | Rel-6 |
| - CHOICE Burst Type | Type 1 | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-6 |
| - Chanelisation code | 16/1 | Rel-6 |
| - Repetition period/length | (4,2) | Rel-6 |
| - Offset | 0 | Rel-6 |
| - MBMS Notification indicator length | 4 | Rel-6 |
| Cell group identity | '000000000001' | Rel-6 |
| Default MSCH configuration information | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | FALSE | Rel-6 |

Contents of MBMS GENERAL INFORMATION message: UM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|------------------|---------|
| Message type | | Rel-6 |
| MBMS preferred frequency information | Not Present | Rel-6 |
| MBMS timers and counters | | Rel-6 |
| - T318 | 4000 ms | Rel-6 |
| MICH configuration information | | Rel-6 |
| - MICH Power offset | -5dB | Rel-6 |
| - CHOICE Mode | TDD | Rel-6 |
| - Timeslot Number | 1 | Rel-6 |
| - Midamble shift and burst type | | |
| - CHOICE TDD option | 1.28 Mcps TDD | Rel-6 |
| - Midamble Allocation Mode | Default midamble | Rel-6 |
| - Midamble configuration | 16 | Rel-6 |
| - Midamble Shift | Not Present | Rel-6 |
| - CHOICE TDD option | 1.28 Mcps TDD | Rel-6 |
| - Chanelisation code | 16/15 | Rel-6 |
| - Repetition period/length | (4,2) | Rel-6 |
| - Offset | 0 | Rel-6 |
| - MBMS Notification indicator length | 4 | Rel-6 |
| Cell group identity | '000000000001' | Rel-6 |
| Default MSCH configuration information | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | FALSE | Rel-6 |

Contents of MBMS GENERAL INFORMATION message: UM (7.68 Mcps TDD)

| Information Element | Value/remark | Version |
|---|----------------|---------|
| Message type | | Rel-6 |
| MBMS preferred frequency information | Not Present | Rel-6 |
| MBMS timers and counters | | Rel-6 |
| - T318 | 4000 ms | Rel-6 |
| MICH configuration information | | Rel-6 |
| - MICH Power offset | -5dB | Rel-6 |
| - CHOICE Mode | TDD | Rel-6 |
| - Timeslot Number | 1 | Rel-6 |
| - CHOICE TDD option | 7.68 Mcps | Rel-6 |
| - CHOICE Burst Type | Type 1 | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-6 |
| - Chanelisation code | 32/1 | Rel-6 |
| - Repetition period/length | (4,2) | Rel-6 |
| - Offset | 0 | Rel-6 |
| - MBMS Notification indicator length | 4 | Rel-6 |
| Cell group identity | '000000000001' | Rel-6 |
| Default MSCH configuration information | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | FALSE | Rel-6 |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (3.84 Mcps)

| Information Element | Value/remark | Version |
|--|-----------------------|---------|
| Message type | | Rel-6 |
| RB information list | 2 entries in the list | Rel-6 |
| - RB identity | 14 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |

| Information Element | Value/remark | Version |
|--|--|---------|
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| - RB identity | 15 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| TrCh information for each TrCh | 2 entries in the list | Rel-6 |
| - Transport channel identity | 1 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| - Transport channel identity | 2 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| TrCh information for each CCTrCh | 2 entries in the list | Rel-6 |
| - CCTrCH identity | 1 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC | |

| Information Element | Value/remark | Version |
|---|--|---------|
| | from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |
| - Power offset information | Not Present | |
| - CCTrCH identity | 2 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |
| - Power offset information | Not Present | |

| Information Element | Value/remark | Version |
|---|--|---------|
| PhyCh information | 2 entries in list | Rel-6 |
| - PhyCh identity | 13 | Rel-6 |
| - Secondary CCPCH info MBMS | | Rel-6 |
| - CHOICE <i>mode</i> | 1.28/3.84 Mcps TDD | Rel-6 |
| - 2 nd interleaving mode | Frame | Rel-6 |
| - TFCI coding | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Puncturing limit | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Timeslot number | 2 | Rel-6 |
| - TFCI information | TRUE | Rel-6 |
| - CHOICE Burst Type | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 3.84Mcps TDD | Rel-6 |
| - CHOICE codes representation | Consecutive codes | Rel-6 |
| - First channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Last channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - CHOICE more timeslots | No more timeslots | Rel-6 |
| - Modulation | Reference to clause 6.10 "Parameter Set" | Rel-7 |
| - PhyCh identity | 17 | Rel-6 |
| - Secondary CCPCH info MBMS | | Rel-6 |
| - CHOICE <i>mode</i> | 1.28/3.84 Mcps TDD | Rel-6 |
| - 2 nd interleaving mode | Frame | Rel-6 |
| - TFCI coding | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Puncturing limit | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Timeslot number | 2 | Rel-6 |
| - TFCI information | TRUE | Rel-6 |
| - CHOICE Burst Type | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 3.84Mcps TDD | Rel-6 |
| - CHOICE codes representation | Consecutive codes | Rel-6 |
| - First channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Last channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - CHOICE more timeslots | No more timeslots | Rel-6 |
| - Modulation | Reference to clause 6.10 "Parameter Set" | Rel-7 |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|-----------------------|---------|
| Message type | | Rel-6 |
| RB information list | 2 entries in the list | Rel-6 |
| - RB identity | 14 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |

| Information Element | Value/remark | Version |
|--|--|---------|
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| - RB identity | 15 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| TrCh information for each TrCh | 2 entries in the list | Rel-6 |
| - Transport channel identity | 1 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.11 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.11 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.11 parameter set | |
| - Type of channel coding | Reference to clause 6.11 parameter set | |
| - Coding Rate | Reference to clause 6.11 parameter set | |
| - Rate matching attribute | Reference to clause 6.11 parameter set | |
| - CRC size | Reference to clause 6.11 parameter set | |
| - Transport channel identity | 2 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.11 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.11 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.11 parameter set | |
| - Type of channel coding | Reference to clause 6.11 parameter set | |
| - Coding Rate | Reference to clause 6.11 parameter set | |
| - Rate matching attribute | Reference to clause 6.11 parameter set | |
| - CRC size | Reference to clause 6.11 parameter set | |
| TrCh information for each CCTrCh | 2 entries in the list | Rel-6 |
| - CCTrCH identity | 1 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC | |

| Information Element | Value/remark | Version |
|---|--|---------|
| | from clause 6.11. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.11 "Parameter Set" | |
| - CTFC | Reference to clause 6.11 "Parameter Set" | |
| - Power offset information | Not Present | |
| - CCTrCH identity | 2 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.11 "Parameter Set" | |
| - CTFC | Reference to clause 6.11 "Parameter Set" | |
| - Power offset information | Not Present | |

| Information Element | Value/remark | Version |
|---------------------------------------|--|---------|
| PhyCh information | 2 entries in list | Rel-6 |
| - PhyCh identity | 13 | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE <i>mode</i> | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | |
| - 2 nd interleaving mode | Frame | |
| - TFCI coding | Reference to clause 6.11 "Parameter Set" | |
| - Puncturing limit | Reference to clause 6.11 "Parameter Set" | |
| - Downlink Timeslots and Codes | | |
| - First Individual timeslot info | | |
| - Timeslot number | 4 | |
| - TFCI information | TRUE | |
| - Midamble Shift and burst type | | |
| - Midamble allocation mode | Default midamble | |
| - Midamble configuration | 16 | |
| - Midamble Shift | Not Present | |
| - CHOICE TDD option | 1.28Mcps TDD | |
| - Modulation | QPSK | |
| - SS-TPC Symbols | 1 | |
| - Additional TPC-SS Symbols | Not Present | |
| - First timeslot channelisation codes | | |
| - CHOICE codes representation | Consecutive codes | |
| - First channelisation code | Reference to clause 6.11 "Parameter Set" | |
| - Last channelisation code | Reference to clause 6.11 "Parameter Set" | |
| - CHOICE more timeslots | No more timeslots | |
| - Modulation | Reference to clause 6.11 "Parameter Set" | |
| - PhyCh identity | 17 | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE <i>mode</i> | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | |
| - 2 nd interleaving mode | Frame | |
| - TFCI coding | Reference to clause 6.11 "Parameter Set" | |
| - Puncturing limit | Reference to clause 6.11 "Parameter Set" | |
| - Downlink Timeslots and Codes | | |
| - First Individual timeslot info | | |
| - Timeslot number | 4 | |
| - TFCI information | TRUE | |
| - Midamble Shift and burst type | | |
| - Midamble allocation mode | Default midamble | |
| - Midamble configuration | 16 | |
| - Midamble Shift | Not Present | |
| - CHOICE TDD option | 1.28Mcps TDD | |
| - Modulation | QPSK | |
| - SS-TPC Symbols | 1 | |
| - Additional TPC-SS Symbols | Not Present | |
| - First timeslot channelisation codes | | |
| - CHOICE codes representation | Consecutive codes | |
| - First channelisation code | Reference to clause 6.11 "Parameter Set" | |
| - Last channelisation code | Reference to clause 6.11 "Parameter Set" | |
| - CHOICE more timeslots | No more timeslots | |
| - Modulation | Reference to clause 6.11 "Parameter Set" | |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (7.68 Mcps)

| Information Element | Value/remark | Version |
|--|-----------------------|---------|
| Message type | | Rel-6 |
| RB information list | 2 entries in the list | Rel-6 |
| - RB identity | 14 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| - RB identity | 15 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | absent | |
| - Header compression information | Not Present | |

| Information Element | Value/remark | Version |
|--|--|---------|
| - RLC info | | |
| - DL UM RLC LI size | 7 | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| TrCh information for each TrCh | 2 entries in the list | Rel-6 |
| - Transport channel identity | 1 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| - Transport channel identity | 2 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to clause 6.10 parameter set | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to clause 6.10 parameter set | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to clause 6.10 parameter set | |
| - Type of channel coding | Reference to clause 6.10 parameter set | |
| - Coding Rate | Reference to clause 6.10 parameter set | |
| - Rate matching attribute | Reference to clause 6.10 parameter set | |
| - CRC size | Reference to clause 6.10 parameter set | |
| TrCh information for each CCTrCh | 2 entries in the list | Rel-6 |
| - CCTrCH identity | 1 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |
| - Power offset information | Not Present | |

| Information Element | Value/remark | Version |
|---|--|---------|
| - CCTrCH identity | 2 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCS Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. | |
| - CTFC information | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set" | |
| - CTFC | Reference to clause 6.10 "Parameter Set" | |
| - Power offset information | Not Present | |
| PhyCh information | 2 entries in list | Rel-6 |
| - PhyCh identity | 13 | Rel-6 |
| - Secondary CCPCH info MBMS | | Rel-6 |
| - CHOICE <i>mode</i> | 7.68 Mcps TDD | Rel-6 |
| - 2 nd interleaving mode | Frame | Rel-6 |
| - TFCS coding | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Puncturing limit | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Timeslot number | 2 | Rel-6 |
| - TFCS information | TRUE | Rel-6 |
| - CHOICE Burst Type | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 3.84Mcps TDD | Rel-6 |
| - CHOICE codes representation | Consecutive codes | Rel-6 |
| - First channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Last channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - CHOICE more timeslots | No more timeslots | Rel-6 |
| - Modulation | Reference to clause 6.10 "Parameter Set" | Rel-7 |
| - PhyCh identity | 17 | Rel-6 |
| - Secondary CCPCH info MBMS | | Rel-6 |
| - CHOICE <i>mode</i> | 1.28/3.84 Mcps TDD | Rel-6 |
| - 2 nd interleaving mode | Frame | Rel-6 |
| - TFCS coding | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Puncturing limit | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Timeslot number | 2 | Rel-6 |
| - TFCS information | TRUE | Rel-6 |
| - CHOICE Burst Type | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Midamble allocation mode | Default | Rel-6 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-6 |
| - CHOICE TDD option | 3.84Mcps TDD | Rel-6 |
| - CHOICE codes representation | Consecutive codes | Rel-6 |
| - First channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - Last channelisation code | Reference to clause 6.10 "Parameter Set" | Rel-6 |
| - CHOICE more timeslots | No more timeslots | Rel-6 |
| - Modulation | Reference to clause 6.10 "Parameter Set" | Rel-7 |

Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element | Condition | Value/remark | Version |
|--|------------|---|---------|
| Message type | A1, A2, A3 | | Rel-6 |
| S-CCPCH list | A1 | Not Present | Rel-6 |
| S-CCPCH list | A2 | Contains 1 S-CCPCH | Rel-6 |
| S-CCPCH list | A3 | Contains 2 S-CCPCH | Rel-6 |
| - S-CCPCH identity | A2, A3 | Not Present | Rel-6 |
| - Secondary CCPCH info | | 1 | Rel-6 |
| - MBMS Soft Combining Timing Offset | | Not Present | Rel-6 |
| - TrCh information common for all TrCh | | 1 | Rel-6 |
| - TrCH information list | | | Rel-6 |
| - TrCh information | | 1 | Rel-6 |
| - RB information list | | | Rel-6 |
| - RB information | | 1 | Rel-6 |
| - MBMS short transmission ID | | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6 |
| - MBMS logical channel identity | | 1 | Rel-6 |
| - MSCH configuration information | | Not Present | Rel-6 |
| - S-CCPCH identity | A3 | Not Present | Rel-6 |
| - Secondary CCPCH info | | 2 | Rel-6 |
| - MBMS Soft Combining Timing Offset | | Not Present | Rel-6 |
| - TrCh information common for all TrCh | | 2 | Rel-6 |
| - TrCH information list | | | Rel-6 |
| - TrCh information | | 2 | Rel-6 |
| - RB information list | | | Rel-6 |
| - RB information | | 2 | Rel-6 |
| - MBMS short transmission ID | | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6 |
| - MBMS logical channel identity | | 2 | Rel-6 |
| - MSCH configuration information | | Not Present | Rel-6 |
| S-CCPCH in SIB type 5 | A1, A2, A3 | Not Present | Rel-6 |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | No services ongoing or starting |
| A2 | 1 service ongoing or starting |
| A3 | 2 services ongoing or starting |

Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------------|--|---------|
| Message type | | Rel-6 |
| Modified services list | 1 entry per modified service - maximum 12. If no services are modified in the current modification period this IE is Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | Set to the value of the service ID being modified (e.g. '000001') | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | '01' | Rel-6 |
| - MBMS required UE action | Acquire PTM RB info | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS dispersion indicator | Not Present | Rel-6 |
| - Continue MCCH reading | FALSE | Rel-6 |
| MBMS re- acquire MCCH | Not Present | Rel-6 |
| MBMS dynamic persistence level | Not Present | Rel-6 |
| End of modified MCCH information | Not Present | Rel-6 |
| MBMS number of neighbour cells | 0 | Rel-6 |
| MBMS all unmodified p-t-m services | Not Present | Rel-6 |
| MBMS p-t-m activation time | Set to the 11 LSB of the first SFN of the next modification period. | Rel-6 |

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| Message type | | Rel-6 |
| Unmodified services list | 12 services by default. See NOTE 1. | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000001' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000002' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000003' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000004' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000005' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000006' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000007' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000008' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '000009' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000A' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000B' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | | |
| - MBMS Service ID | '00000C' | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |

| Information Element | Condition | Value/remark | Explanation |
|---------------------------|-----------|-----------------------|--|
| - MBMS Session ID | A1 | Not Present | Condition used when the session is currently not being transmitted |
| - MBMS required UE action | | 'None' | |
| - MBMS Session ID | A2 | '01' | Condition used when the session is currently ongoing |
| - MBMS required UE action | | 'Acquire PTM RB info' | |

NOTE 1: Any service ID which is included in MBMS MODIFIED SERVICES INFORMATION in the current modification period shall be Not Present in the list of services in this message.

Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| - Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Conversational Call |
| - CN domain identity | CS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| - Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Streaming Call |
| - CN domain identity | CS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |

| | |
|------------------------|-------------|
| BCCH modification info | Not Present |
|------------------------|-------------|

Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| - Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Interactive Call |
| - CN domain identity | PS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|--|---|----------------|--|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | | Rel-5 Rel-6 | RBS3-001 RBS3-002 RBS3-003 RBS3-004 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS3-005 RBS3-006 |
| Integrity check info | | | | RBS3-007 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | |
| Integrity protection mode info | | Not Present | | RBS3-008 |
| Ciphering mode info | | Not Present | | RBS3-009 |
| Activation time | A1, A2, A3, A11, A9 | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ | Rel-5 Rel-6 | RBS3-010 RBS3-011 RBS3-012 |
| Activation time | A4, A5, A6, A7, A8, A10 | Not Present | Rel-5 | RBS3-013 RBS3-014 |
| New U-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS3-015 RBS3-016 RBS3-017 RBS3-018 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS3-019 RBS3-020 RBS3-021 RBS3-022 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | | |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15 | Not Present | Rel-5 | RBS3-023 |
| New H-RNTI | | '1010 1010 1010 1010' | Rel-5 Rel-6 | RBS3-024 RBS3-025 |
| Choice mode | | TDD | Rel-7 | RBS3-026 |
| - New E-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 | Not Present | Rel-7 | RBS3-027 |
| - New E-RNTI | A12, A13, A14, A15, A16 | '1010 1010 1010 1010' | Rel-7 | RBS3-028 |
| RRC State indicator | A1, A2, A3, A4, A7, A8, A11, A9, A10 | CELL_DCH | | RBS3-029 |
| RRC State indicator | A5, A6 | CELL_FACH | Rel-5 Rel-6 | RBS3-030 RBS3-031 RBS3-032 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|--|----------------|----------------------------------|
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16 | Not Present | Rel-5 Rel-7 | RBS3-033 RBS3-034 RBS3-035 |
| CN information info | | Not Present | | RBS3-036 |
| URA identity | | Not Present | | RBS3-037 |
| CHOICE Specification mode | | Complete specification | Rel-6 | RBS3-038 |
| - Signalling RB information to setup | | Not Present | | RBS3-039 |
| - RAB information for setup | A1, A7 | | | RBS3-040 |
| - RAB info | | 0000 0001B | | RBS3-041 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS3-042 |
| - CN domain identity | | CS domain | | RBS3-043 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-044 |
| - Re-establishment timer | | useT314 | | RBS3-045 |
| - RB information to setup | | | | RBS3-046 |
| - RB identity | | 10 | | RBS3-047 |
| - PDCP info | | Not Present | | RBS3-048 |
| - CHOICE RLC info type | | RLC info | | RBS3-049 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-050 |
| - Transmission RLC discard | | Not Present | | RBS3-051 |
| - Segmentation indication | | FALSE | | RBS3-052 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-053 |
| - Segmentation indication | | FALSE | | RBS3-054 |
| - RB mapping info | | | | RBS3-055 |
| - Information for each multiplexing option | | | | RBS3-056 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-057 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-058 |
| - Uplink transport channel type | | DCH | | RBS3-059 |
| - UL Transport channel identity | | 1 | | RBS3-060 |
| - Logical channel identity | | Not Present | | RBS3-061 |
| - CHOICE RLC size list | | Configured | | RBS3-062 |
| - MAC logical channel priority | | 7 | | RBS3-063 |
| - Downlink RLC logical channel info | | 1 | | RBS3-065 |
| - Downlink transport channel type | | DCH | | RBS3-066 |
| - DL DCH Transport channel identity | | 6 | | RBS3-067 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-068 |
| - Logical channel identity | | Not Present | | RBS3-069 |
| - RAB information for setup | A2, A8 | | | RBS3-070 |
| - RAB info | | 0000 0001B | | RBS3-071 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS3-072 |
| - CN domain identity | | CS domain | | RBS3-073 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-074 |
| - Re-establishment timer | | useT314 | | RBS3-075 |
| - RB information to setup | | | | RBS3-076 |
| - RB identity | | 10 | | RBS3-077 |
| - PDCP info | | Not Present | | RBS3-078 |
| - CHOICE RLC info type | | RLC info | | RBS3-079 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-080 |
| - Transmission RLC discard | | Not Present | | RBS3-081 |
| - Segmentation indication | | FALSE | | RBS3-082 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-083 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--------------|---------|----------|
| - Segmentation indication | | FALSE | | RBS3-084 |
| - RB mapping info | | | | RBS3-085 |
| - Information for each multiplexing option | | | | RBS3-086 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-087 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-088 |
| - Uplink transport channel type | | DCH | | RBS3-089 |
| - UL Transport channel identity | | 1 | | RBS3-090 |
| - Logical channel identity | | Not Present | | RBS3-091 |
| - CHOICE RLC size list | | Configured | | RBS3-092 |
| - MAC logical channel priority | | 6 | | RBS3-093 |
| - Downlink RLC logical channel info | | | | RBS3-094 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-095 |
| - Downlink transport channel type | | DCH | | RBS3-096 |
| - DL DCH Transport channel identity | | 6 | | RBS3-097 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-098 |
| - Logical channel identity | | Not Present | | RBS3-099 |
| - RB identity | | 11 | | RBS3-100 |
| - PDCP info | | Not Present | | RBS3-101 |
| - CHOICE RLC info type | | RLC info | | RBS3-102 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-103 |
| - Transmission RLC discard | | Not Present | | RBS3-104 |
| - Segmentation indication | | FALSE | | RBS3-105 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-106 |
| - Segmentation indication | | FALSE | | RBS3-107 |
| - RB mapping info | | | | RBS3-108 |
| - Information for each multiplexing option | | | | RBS3-109 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-110 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-111 |
| - Uplink transport channel type | | DCH | | RBS3-112 |
| - UL Transport channel identity | | 2 | | RBS3-113 |
| - Logical channel identity | | Not Present | | RBS3-114 |
| - CHOICE RLC size list | | Configured | | RBS3-115 |
| - MAC logical channel priority | | 6 | | RBS3-116 |
| - Downlink RLC logical channel info | | | | RBS3-117 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-118 |
| - Downlink transport channel type | | DCH | | RBS3-119 |
| - DL DCH Transport channel identity | | 7 | | RBS3-120 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-121 |
| - Logical channel identity | | Not Present | | RBS3-122 |
| - RB identity | | 12 | | RBS3-123 |
| - PDCP info | | Not Present | | RBS3-124 |
| - CHOICE RLC info type | | RLC info | | RBS3-125 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-126 |
| - Transmission RLC discard | | Not Present | | RBS3-127 |
| - Segmentation indication | | FALSE | | RBS3-128 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-129 |
| - Segmentation indication | | FALSE | | RBS3-130 |
| - RB mapping info | | | | RBS3-131 |
| - Information for each multiplexing option | | | | RBS3-132 |
| - RLC logical channel mapping | | Not Present | | RBS3-133 |

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| indicator | | | | |
| - Number of uplink RLC logical channels | | 1 | | RBS3-134 |
| - Uplink transport channel type | | DCH | | RBS3-135 |
| - UL Transport channel identity | | 3 | | RBS3-136 |
| - Logical channel identity | | Not Present | | RBS3-137 |
| - CHOICE RLC size list | | Configured | | RBS3-138 |
| - MAC logical channel priority | | 6 | | RBS3-139 |
| - Downlink RLC logical channel | | | | RBS3-140 |
| info | | | | |
| - Number of downlink RLC logical channels | | 1 | | RBS3-141 |
| - Downlink transport channel type | | DCH | | RBS3-142 |
| - DL DCH Transport channel identity | | 8 | | RBS3-143 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-144 |
| - Logical channel identity | | Not Present | | RBS3-145 |
| - RAB information for setup | A3, A4, A5, A6 | | | RBS3-146 |
| - RAB info | | (AM DTCH for PS domain) | | RBS3-147 |
| - RAB identity | | 0000 0101B | | RBS3-148 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-149 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-150 |
| - Re-establishment timer | | useT315 | | RBS3-151 |
| - RB information to setup | | | | RBS3-152 |
| - RB identity | | 20 | | RBS3-153 |
| - PDCP info | | | | RBS3-154 |
| - Support for lossless SRNS | | FALSE | | RBS3-155 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS3-156 |
| - PDCP PDU header | | Absent | | RBS3-157 |
| - Header compression | | Not present | | RBS3-158 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS3-159 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-160 |
| - Transmission RLC discard | | | | RBS3-161 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-162 |
| - MAX_DAT | | 15 | | RBS3-163 |
| - Transmission window size | | 128 | | RBS3-164 |
| - Timer_RST | | 500 | | RBS3-165 |
| - Max_RST | | 4 | | RBS3-166 |
| - Polling info | | | | RBS3-167 |
| - Timer_poll_prohibit | | 200 | | RBS3-168 |
| - Timer_poll | | 200 | | RBS3-169 |
| - Poll_PDU | | Not Present | | RBS3-170 |
| - Poll_SDU | | 1 | | RBS3-171 |
| - Last transmission PDU poll | | TRUE | | RBS3-172 |
| - Last retransmission PDU poll | | TRUE | | RBS3-173 |
| - Poll_Windows | | 99 | | RBS3-174 |
| - Timer_poll_periodic | | Not Present | | RBS3-175 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-176 |
| - In-sequence delivery | | TRUE | | RBS3-177 |
| - Receiving window size | | 128 | | RBS3-178 |
| - Downlink RLC status info | | | | RBS3-179 |
| - Timer_status_prohibit | | 200 | | RBS3-180 |
| - Timer_EPC | | Not Present | | RBS3-181 |
| - Missing PDU indicator | | TRUE | | RBS3-182 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-183 |
| - RB mapping info | | | | RBS3-184 |
| - Information for each multiplexing | | 2 RBMuxOptions | | RBS3-185 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RBS3-186 |
| indicator | | | | |

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| - Number of uplink RLC logical channels | | 1 | | RBS3-187 |
| - Uplink transport channel type | | DCH | | RBS3-188 |
| - UL Transport channel identity | | 1 | | RBS3-189 |
| - Logical channel identity | | Not Present | | RBS3-190 |
| - CHOICE RLC size list | | Configured | | RBS3-191 |
| - MAC logical channel priority | | 8 | | RBS3-192 |
| - Downlink RLC logical channel info | | | | RBS3-193 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-194 |
| - Downlink transport channel type | | DCH | | RBS3-195 |
| - DL DCH Transport channel identity | | 6 | | RBS3-196 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-197 |
| - Logical channel identity | | Not Present | | RBS3-198 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-199 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-200 |
| - Uplink transport channel type | | RACH | | RBS3-201 |
| - UL Transport channel identity | | Not Present | | RBS3-202 |
| - Logical channel identity | | 7 | | RBS3-203 |
| - CHOICE RLC size list | | Explicit list | | RBS3-204 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS3-205 |
| - MAC logical channel priority | | 8 | | RBS3-206 |
| - Downlink RLC logical channel info | | | | RBS3-207 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-208 |
| - Downlink transport channel type | | FACH | | RBS3-209 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-210 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-211 |
| - Logical channel identity | | 7 | | RBS3-212 |
| - RAB information for setup | A9 | | Rel-5 | RBS3-213 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS3-214 |
| - RAB identity | | 0000 0101B | | RBS3-215 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-216 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-217 |
| - Re-establishment timer | | useT315 | | RBS3-218 |
| - RB information to setup | | | | RBS3-219 |
| - RB identity | | 25 | | RBS3-220 |
| - PDCP info | | | | RBS3-221 |
| - Support for lossless SRNS relocation | | FALSE | | RBS3-222 |
| - Max PDCP SN window size | | Not present | | RBS3-223 |
| - PDCP PDU header | | Absent | | RBS3-224 |
| - Header compression information | | Not present | | RBS3-225 |
| - CHOICE RLC info type | | RLC info | | RBS3-226 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-227 |
| - Transmission RLC discard | | | | RBS3-228 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-229 |
| - MAX_DAT | | 15 | | RBS3-230 |
| - Transmission window size | | 128 | | RBS3-231 |
| - Timer_RST | | 500 | | RBS3-232 |
| - Max_RST | | 4 | | RBS3-233 |
| - Polling info | | | | RBS3-234 |
| - Timer_poll_prohibit | | 100 | | RBS3-235 |

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| - Timer_poll | | 100 | | RBS3-236 |
| - Poll_PDU | | Not Present | | RBS3-237 |
| - Poll_SDU | | 1 | | RBS3-238 |
| - Last transmission PDU poll | | TRUE | | RBS3-239 |
| - Last retransmission PDU poll | | TRUE | | RBS3-240 |
| - Poll_Windows | | 99 | | RBS3-241 |
| - Timer_poll_periodic | | Not Present | | RBS3-242 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-243 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS3-244 |
| - In-sequence delivery | | TRUE | | RBS3-245 |
| - Receiving window size | | 768 | | RBS3-246 |
| - Downlink RLC status info | | | | RBS3-247 |
| - Timer_status_prohibit | | 100 | | RBS3-248 |
| - Timer_EPC | | Not Present | | RBS3-249 |
| - Missing PDU indicator | | TRUE | | RBS3-250 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-251 |
| - One sided RLC re-establishment | | FALSE | | RBS3-252 |
| - RB mapping info | | | | RBS3-253 |
| - Information for each multiplexing option | | 3 RBmuxOptions | | RBS3-254 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-255 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-256 |
| - Uplink transport channel type | | DCH | | RBS3-257 |
| - UL Transport channel identity | | 1 | | RBS3-258 |
| - Logical channel identity | | Not Present | | RBS3-259 |
| - CHOICE RLC size list | | Configured | | RBS3-260 |
| - MAC logical channel priority | | 8 | | RBS3-261 |
| - Downlink RLC logical channel info | | | | RBS3-262 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-263 |
| - Downlink transport channel type | | DCH | | RBS3-264 |
| - DL DCH Transport channel identity | | 6 | | RBS3-265 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-266 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RBS3-267 |
| - Logical channel identity | | Not Present | | RBS3-268 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-269 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-270 |
| - Uplink transport channel type | | DCH | | RBS3-271 |
| - UL Transport channel identity | | 1 | | RBS3-272 |
| - Logical channel identity | | Not Present | | RBS3-273 |
| - CHOICE RLC size list | | Configured | | RBS3-274 |
| - MAC logical channel priority | | 8 | | RBS3-275 |
| - Downlink RLC logical channel info | | | | RBS3-276 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-277 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-278 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-279 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-280 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS3-281 |
| - Logical channel identity | | Not Present | | RBS3-282 |
| - RLC logical channel mapping | | Not Present | | RBS3-283 |

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| indicator | | | | |
| - Number of uplink RLC logical channels | | 1 | | RBS3-284 |
| - Uplink transport channel type | | RACH | | RBS3-285 |
| - UL Transport channel identity | | Not Present | | RBS3-286 |
| - Logical channel identity | | 7 | | RBS3-287 |
| - CHOICE RLC size list | | Explicit list | | RBS3-288 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS3-289 |
| - MAC logical channel priority | | 8 | | RBS3-290 |
| - Downlink RLC logical channel | | | | RBS3-291 |
| info | | | | |
| - Number of downlink RLC logical channels | | 1 | | RBS3-292 |
| - Downlink transport channel type | | FACH | | RBS3-293 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-294 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-295 |
| - Logical channel identity | | 7 | | RBS3-296 |
| - RAB information for setup | A10 | (high-speed AM DTCH for PS domain) | Rel-5 | RBS3-297 |
| - RAB info | | 0000 0101B | | RBS3-298 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS3-299 |
| - CN domain identity | | PS domain | | RBS3-300 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-301 |
| - Re-establishment timer | | useT315 | | RBS3-302 |
| - RB information to setup | | | | RBS3-303 |
| - RB identity | | 25 | | RBS3-304 |
| - PDCP info | | FALSE | | RBS3-305 |
| - Support for lossless SRNS relocation | | | | RBS3-306 |
| - Max PDCP SN window size | | Not present | | RBS3-307 |
| - PDCP PDU header | | Absent | | RBS3-308 |
| - Header compression | | Not present | | RBS3-309 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS3-310 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-311 |
| - Transmission RLC discard | | | | RBS3-312 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-313 |
| - MAX_DAT | | 15 | | RBS3-314 |
| - Transmission window size | | 128 | | RBS3-315 |
| - Timer_RST | | 500 | | RBS3-316 |
| - Max_RST | | 4 | | RBS3-317 |
| - Polling info | | | | RBS3-318 |
| - Timer_poll_prohibit | | 100 | | RBS3-319 |
| - Timer_poll | | 100 | | RBS3-320 |
| - Poll_PDU | | Not Present | | RBS3-321 |
| - Poll_SDU | | 1 | | RBS3-322 |
| - Last transmission PDU poll | | TRUE | | RBS3-323 |
| - Last retransmission PDU poll | | TRUE | | RBS3-324 |
| - Poll_Windows | | 99 | | RBS3-325 |
| - Timer_poll_periodic | | Not Present | | RBS3-326 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-327 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS3-328 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS3-329 |
| - Receiving window size | | 768 | | RBS3-330 |
| - Downlink RLC status info | | | | RBS3-331 |
| - Timer_status_prohibit | | 100 | | RBS3-332 |
| - Timer_EPC | | Not Present | | RBS3-333 |
| - Missing PDU indicator | | TRUE | | RBS3-334 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-335 |
| - One sided RLC re-establishment | | FALSE | | RBS3-336 |

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| - RB mapping info | | | | RBS3-337 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-338 |
| - RLC logical channel mapping indicator | | Not present | | RBS3-339 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-340 |
| - Uplink transport channel type | | DCH | | RBS3-341 |
| - UL Transport channel identity | | 1 | | RBS3-342 |
| - Logical channel identity | | Not Present | | RBS3-343 |
| - CHOICE RLC size list | | Configured | | RBS3-344 |
| - MAC logical channel priority | | 8 | | RBS3-345 |
| - Downlink RLC logical channel info | | | | RBS3-346 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-347 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-348 |
| - DL DCH Transport channel identity | | Not present | | RBS3-349 |
| - DL DSCH Transport channel identity | | Not present | | RBS3-350 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS3-351 |
| - Logical channel identity | | Not Present | | RBS3-352 |
| - RAB information for setup | A11 | | | RBS3-353 |
| - RAB info | | (AM DTCH for PS domain) | | RBS3-354 |
| - RAB identity | | 0000 0101B | | RBS3-355 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-356 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-357 |
| - Re-establishment timer | | useT315 | | RBS3-358 |
| - RB information to setup | | | | RBS3-359 |
| - RB identity | | 20 | | RBS3-360 |
| - PDCP info | | | | RBS3-361 |
| - Support for lossless SRNS relocation | | FALSE | | RBS3-362 |
| - Max PDCP SN window size | | Not present | | RBS3-363 |
| - PDCP PDU header | | Absent | | RBS3-364 |
| - Header compression | | Not present | | RBS3-365 |
| - CHOICE RLC info type | | RLC info | | RBS3-366 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-367 |
| - Transmission RLC discard | | | | RBS3-368 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-369 |
| - MAX_DAT | | 15 | | RBS3-370 |
| - Transmission window size | | 128 | | RBS3-371 |
| - Timer_RST | | 500 | | RBS3-372 |
| - Max_RST | | 4 | | RBS3-373 |
| - Polling info | | | | RBS3-374 |
| - Timer_poll_prohibit | | 200 | | RBS3-375 |
| - Timer_poll | | 200 | | RBS3-376 |
| - Poll_PDU | | Not Present | | RBS3-377 |
| - Poll_SDU | | 1 | | RBS3-378 |
| - Last transmission PDU poll | | TRUE | | RBS3-379 |
| - Last retransmission PDU poll | | TRUE | | RBS3-380 |
| - Poll_Windows | | 99 | | RBS3-381 |
| - Timer_poll_periodic | | Not Present | | RBS3-382 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-383 |
| - In-sequence delivery | | TRUE | | RBS3-384 |
| - Receiving window size | | 128 | | RBS3-385 |
| - Downlink RLC status info | | | | RBS3-386 |
| - Timer_status_prohibit | | 200 | | RBS3-387 |
| - Timer_EPC | | Not Present | | RBS3-388 |
| - Missing PDU indicator | | TRUE | | RBS3-389 |

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| - Timer_STATUS_periodic | | Not Present | | RBS3-390 |
| - RB mapping info | | | | RBS3-391 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RBS3-392 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-393 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-394 |
| - Uplink transport channel type | | DCH | | RBS3-395 |
| - UL Transport channel identity | | 4 | | RBS3-396 |
| - Logical channel identity | | Not Present | | RBS3-397 |
| - CHOICE RLC size list | | Configured | | RBS3-398 |
| - MAC logical channel priority | | 8 | | RBS3-399 |
| - Downlink RLC logical channel info | | | | RBS3-400 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-401 |
| - Downlink transport channel type | | DCH | | RBS3-402 |
| - DL DCH Transport channel identity | | 9 | | RBS3-403 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-404 |
| - Logical channel identity | | Not Present | | RBS3-405 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-406 |
| - RAB information for setup | A12 | | Rel-7 | RBS3-407 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS3-408 |
| - RAB identity | | 0000 0101B | | RBS3-409 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-410 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-411 |
| - Re-establishment timer | | useT315 | | RBS3-412 |
| - RB information to setup | | | | RBS3-413 |
| - RB identity | | 25 | | RBS3-414 |
| - PDCP info | | | | RBS3-415 |
| - Support for lossless SRNS relocation | | FALSE | | RBS3-416 |
| - Max PDCP SN window size | | Not present | | RBS3-417 |
| - PDCP PDU header | | Absent | | RBS3-418 |
| - Header compression | | Not present | | RBS3-419 |
| - CHOICE RLC info type | | RLC info | | RBS3-420 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-421 |
| - Transmission RLC discard | | | | RBS3-422 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-423 |
| - MAX_DAT | | 15 | | RBS3-424 |
| - Transmission window size | | 256 | | RBS3-425 |
| - Timer_RST | | 500 | | RBS3-426 |
| - Max_RST | | 4 | | RBS3-427 |
| - Polling info | | | | RBS3-428 |
| - Timer_poll_prohibit | | 100 | | RBS3-429 |
| - Timer_poll | | 100 | | RBS3-430 |
| - Poll_PDU | | Not Present | | RBS3-431 |
| - Poll_SDU | | 1 | | RBS3-432 |
| - Last transmission PDU poll | | TRUE | | RBS3-433 |
| - Last retransmission PDU poll | | TRUE | | RBS3-434 |
| - Poll_Windows | | 99 | | RBS3-435 |
| - Timer_poll_periodic | | Not Present | | RBS3-436 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-437 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS3-438 |
| - In-sequence delivery | | TRUE | | RBS3-439 |
| - Receiving window size | | 768 | | RBS3-440 |
| - Downlink RLC status info | | | | RBS3-441 |

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| - Timer_status_prohibit | | 100 | | RBS3-442 |
| - Timer_EPC | | Not Present | | RBS3-443 |
| - Missing PDU indicator | | TRUE | | RBS3-444 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-445 |
| - One sided RLC re-establishment | | FALSE | | RBS3-446 |
| - RB mapping info | | | | RBS3-447 |
| - Information for each multiplexing option | | 3 RBMuxOptions | | RBS3-448 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-449 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-450 |
| - Uplink transport channel type | | DCH | | RBS3-451 |
| - UL Transport channel identity | | 1 | | RBS3-452 |
| - Logical channel identity | | Not Present | | RBS3-453 |
| - CHOICE RLC size list | | Configured | | RBS3-454 |
| - MAC logical channel priority | | 8 | | RBS3-455 |
| - Downlink RLC logical channel info | | | | RBS3-456 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-457 |
| - Downlink transport channel type | | DCH | | RBS3-458 |
| - DL DCH Transport channel identity | | 6 | | RBS3-459 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-460 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RBS3-461 |
| - Logical channel identity | | Not Present | | RBS3-462 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-463 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-464 |
| - Uplink transport channel type | | E-DCH | | RBS3-465 |
| - Logical channel identity | | 7 | | RBS3-466 |
| - E-DCH MAC-d flow identity | | 2 | | RBS3-467 |
| - DDI | | 5 | | RBS3-468 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-469 |
| - RLC PDU size | | 336 bits | | RBS3-470 |
| - Include in scheduling info | | TRUE | | RBS3-471 |
| - MAC logical channel priority | | 8 | | RBS3-472 |
| - Downlink RLC logical channel info | | | | RBS3-473 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-474 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-475 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-476 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-477 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS3-478 |
| - Logical channel identity | | Not Present | | RBS3-479 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-480 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-481 |
| - Uplink transport channel type | | RACH | | RBS3-482 |
| - UL Transport channel identity | | Not Present | | RBS3-483 |
| - Logical channel identity | | 7 | | RBS3-484 |
| - CHOICE RLC size list | | Explicit list | | RBS3-485 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS3-486 |
| - MAC logical channel priority | | 8 | | RBS3-487 |
| - Downlink RLC logical channel | | | | RBS3-488 |

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| info | | 1 | | RBS3-489 |
| logical channels | | FACH | | RBS3-490 |
| type | | Not Present | | RBS3-491 |
| identity | | Not Present | | RBS3-492 |
| identity | A13, A14 | (high-speed AM DTCH for PS domain) 0000 0101B | Rel-7 | RBS3-493 |
| - RAB information for setup | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS3-494 |
| - RAB info | | PS domain | | RBS3-496 |
| - RAB identity | | Not Present | | RBS3-497 |
| - CN domain identity | | useT315 | | RBS3-498 |
| - NAS Synchronization Indicator | | 25 | | RBS3-499 |
| - Re-establishment timer | | FALSE | | RBS3-500 |
| - RB information to setup | | Not present | | RBS3-501 |
| - RB identity | | Absent | | RBS3-502 |
| - PDCP info | | Not present | | RBS3-503 |
| - Support for lossless SRNS | | Not present | | RBS3-504 |
| relocation | | Not present | | RBS3-505 |
| - Max PDCP SN window size | | Absent | | RBS3-506 |
| - PDCP PDU header | | Not present | | RBS3-507 |
| - Header compression | | Not present | | RBS3-508 |
| information | | RLC info | | RBS3-509 |
| - CHOICE RLC info type | | AM RLC | | RBS3-510 |
| - CHOICE Uplink RLC mode | | No Discard | | RBS3-511 |
| - Transmission RLC discard | | 15 | | RBS3-512 |
| - CHOICE SDU discard mode | | 256 | | RBS3-513 |
| - MAX_DAT | | 500 | | RBS3-514 |
| - Transmission window size | | 4 | | RBS3-515 |
| - Timer_RST | | 100 | | RBS3-516 |
| - Max_RST | | 100 | | RBS3-517 |
| - Polling info | | Not Present | | RBS3-518 |
| - Timer_poll_prohibit | | 1 | | RBS3-519 |
| - Timer_poll | | TRUE | | RBS3-520 |
| - Poll_PDU | | TRUE | | RBS3-521 |
| - Poll_SDU | | 99 | | RBS3-522 |
| - Last transmission PDU poll | | Not Present | | RBS3-523 |
| - Last retransmission PDU poll | | AM RLC | | RBS3-524 |
| - Poll_Windows | | Reference to clause 6 Parameter Set | | RBS3-525 |
| - Timer_poll_periodic | | TRUE | | RBS3-526 |
| - CHOICE Downlink RLC mode | | 768 | | RBS3-527 |
| - CHOICE Downlink RLC PDU | | 100 | | RBS3-528 |
| Size | | Not Present | | RBS3-529 |
| - In-sequence delivery | | TRUE | | RBS3-530 |
| - Receiving window size | | 768 | | RBS3-531 |
| - Downlink RLC status info | | Not Present | | RBS3-532 |
| - Timer_status_prohibit | | 100 | | RBS3-533 |
| - Timer_EPC | | Not Present | | RBS3-534 |
| - Missing PDU indicator | | TRUE | | RBS3-535 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-536 |
| - One sided RLC re- | | FALSE | | RBS3-537 |
| establishment | | 1 RBmuxOption | | RBS3-538 |
| - RB mapping info | | 1 RBmuxOption | | RBS3-539 |
| - Information for each multiplexing | | Not Present | | RBS3-540 |
| option | | Not Present | | RBS3-541 |
| - RLC logical channel mapping | | Not Present | | RBS3-542 |
| indicator | | 1 | | RBS3-543 |
| - Number of uplink RLC logical | | 1 | | RBS3-544 |
| channels | | E-DCH | | RBS3-545 |
| - Uplink transport channel type | | 7 | | RBS3-546 |
| - Logical channel identity | | 2 | | RBS3-547 |
| - E-DCH MAC-d flow identity | | 5 | | RBS3-548 |
| - DDI | | 5 | | RBS3-549 |

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| - RLC PDU size list | | 1 RLC PDU size | | RBS3-541 |
| | | 336 bits | | RBS3-542 |
| - RLC PDU size | | TRUE | | RBS3-543 |
| - Include in scheduling info | | 8 | | RBS3-544 |
| - MAC logical channel priority | | | | RBS3-545 |
| - Downlink RLC logical channel | | | | |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS3-546 |
| logical channels | | | | |
| - Downlink transport channel | | HS-DSCH | | RBS3-547 |
| type | | | | |
| - DL DCH Transport channel | | Not present | | RBS3-548 |
| identity | | | | |
| - DL DSCH Transport channel | | Not present | | RBS3-549 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | 0 | | RBS3-550 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS3-551 |
| - RAB information for setup | A15 | | Rel-7 | RBS3-552 |
| - RAB info | | (second high-speed AM DTCH for PS domain) | | RBS3-553 |
| - RAB identity | | 0000 0110B | | RBS3-554 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-555 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-556 |
| - Re-establishment timer | | useT315 | | RBS3-557 |
| - RB information to setup | | | | RBS3-558 |
| - RB identity | | 17 | | RBS3-559 |
| - PDCP info | | | | RBS3-560 |
| - Support for lossless SRNS | | FALSE | | RBS3-561 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS3-562 |
| - PDCP PDU header | | Absent | | RBS3-563 |
| - Header compression | | Not present | | RBS3-564 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS3-565 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-566 |
| - Transmission RLC discard | | | | RBS3-567 |
| - CHOICE SDU discard mode | | No Discard | | RBS3-568 |
| - MAX_DAT | | 15 | | RBS3-569 |
| - Transmission window size | | 256 | | RBS3-570 |
| - Timer_RST | | 500 | | RBS3-571 |
| - Max_RST | | 4 | | RBS3-572 |
| - Polling info | | | | RBS3-573 |
| - Timer_poll_prohibit | | 100 | | RBS3-574 |
| - Timer_poll | | 100 | | RBS3-575 |
| - Poll_PDU | | Not Present | | RBS3-576 |
| - Poll_SDU | | 1 | | RBS3-577 |
| - Last transmission PDU poll | | TRUE | | RBS3-578 |
| - Last retransmission PDU poll | | TRUE | | RBS3-579 |
| - Poll_Windows | | 99 | | RBS3-580 |
| - Timer_poll_periodic | | Not Present | | RBS3-581 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-582 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS3-583 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS3-584 |
| - Receiving window size | | 768 | | RBS3-585 |
| - Downlink RLC status info | | | | RBS3-586 |
| - Timer_status_prohibit | | 100 | | RBS3-587 |
| - Timer_EPC | | Not Present | | RBS3-588 |
| - Missing PDU indicator | | TRUE | | RBS3-589 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-590 |
| - One sided RLC re- | | FALSE | | RBS3-591 |
| establishment | | | | |
| - RB mapping info | | | | RBS3-592 |
| - Information for each multiplexing | | 1 RBMuxOption | | RBS3-593 |

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| option | | | | |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-594 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-595 |
| - Uplink transport channel type | | E-DCH | | RBS3-596 |
| - Logical channel identity | | 8 | | RBS3-597 |
| - E-DCH MAC-d flow identity | | 3 | | RBS3-598 |
| - DDI | | 6 | | RBS3-599 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-600 |
| - RLC PDU size | | 336 bits | | RBS3-601 |
| - Include in scheduling info | | TRUE | | RBS3-602 |
| - MAC logical channel priority | | 8 | | RBS3-603 |
| - Downlink RLC logical channel info | | | | RBS3-604 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-605 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-606 |
| - DL DCH Transport channel identity | | Not present | | RBS3-607 |
| - DL DSCH Transport channel identity | | Not present | | RBS3-608 |
| - DL HS-DSCH MAC-d flow identity | | 2 | | RBS3-609 |
| - Logical channel identity | | Not Present | | RBS3-610 |
| - RAB information for setup | A16 | (Conversational UM DTCH for PS domain) | Rel-6 | RBS3-611 |
| - RAB info | | 0000 0110B | | RBS3-612 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS3-613 |
| - CN domain identity | | PS domain | | RBS3-614 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-615 |
| - Re-establishment timer | | useT314 | | RBS3-616 |
| - RB information to setup | | | | RBS3-617 |
| - RB identity | | 27 | | RBS3-618 |
| - PDCP info | | | | RBS3-619 |
| - Support for lossless SRNS relocation | | FALSE | | RBS3-620 |
| - Max PDCP SN window size | | Not present | | RBS3-621 |
| - PDCP PDU header | | Absent | | RBS3-622 |
| - Header compression | | Not present | | RBS3-623 |
| - CHOICE RLC info type | | RLC info | | RBS3-624 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS3-625 |
| - Transmission RLC discard | | Not present | | RBS3-626 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS3-627 |
| - DL UM RLC LI size | | 7 | | RBS3-628 |
| - DL Reception Window Size | | 32 | | RBS3-629 |
| - One sided RLC re-establishment | | FALSE | | RBS3-630 |
| - Alternative E-bit interpretation | | Not present | | RBS3-631 |
| - RB mapping info | | | | RBS3-632 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-633 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-634 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-635 |
| - Uplink transport channel type | | E-DCH | | RBS3-636 |
| - Logical channel identity | | 9 | | RBS3-637 |
| - E-DCH MAC-d flow identity | | 4 | | RBS3-638 |
| - DDI | | 7 | | RBS3-639 |
| - RLC PDU size list | | 12 RLC PDU sizes | | RBS3-640 |
| - RLC PDU size | | 96 bits | | RBS3-641 |

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| - RLC PDU size | | 112 bits | | RBS3-642 |
| - RLC PDU size | | 144 bits | | RBS3-643 |
| - RLC PDU size | | 160 bits | | RBS3-644 |
| - RLC PDU size | | 176 bits | | RBS3-645 |
| - RLC PDU size | | 192 bits | | RBS3-646 |
| - RLC PDU size | | 208 bits | | RBS3-647 |
| - RLC PDU size | | 224 bits | | RBS3-648 |
| - RLC PDU size | | 288 bits | | RBS3-649 |
| - RLC PDU size | | 296 bits | | RBS3-650 |
| - RLC PDU size | | 312 bits | | RBS3-651 |
| - RLC PDU size | | 336 bits | | RBS3-652 |
| - Include in scheduling info | | TRUE | | RBS3-653 |
| - MAC logical channel priority | | 8 | | RBS3-654 |
| - Downlink RLC logical channel info | | | | RBS3-655 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-656 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-657 |
| - DL DCH Transport channel identity | | Not present | | RBS3-658 |
| - DL DSCH Transport channel identity | | Not present | | RBS3-659 |
| - DL HS-DSCH MAC-d flow identity | | 3 | | RBS3-660 |
| - Logical channel identity | | Not Present | | RBS3-661 |
| RB information to reconfigure list | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16 | Not Present | Rel-5 Rel-7 | RBS3-662 RBS3-663 RBS3-664 |
| RB information to be affected | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A15 | Not Present | Rel-5 Rel-7 Rel-7 | RBS3-665 RBS3-666 RBS3-667 RBS3-668 RBS3-669 RBS3-670 RBS3-671 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS3-672 |
| - RB mapping info | | 1 RBMuxOption | | RBS3-673 |
| - Information for each multiplexing option | | Not Present | | RBS3-674 |
| - RLC logical channel mapping indicator | | 1 | | RBS3-675 |
| - Number of uplink RLC logical channels | | E-DCH | | RBS3-676 |
| - Uplink transport channel type | | 1 | | RBS3-677 |
| - Logical channel identity | | 1 | | RBS3-678 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-679 |
| - DDI | | 1 RLC PDU size | | RBS3-680 |
| - RLC PDU size list | | 144 bits | | RBS3-681 |
| - RLC PDU size | | FALSE | | RBS3-682 |
| - Include in scheduling info | | 1 | | RBS3-683 |
| - MAC logical channel priority | | | | RBS3-684 |
| - Downlink RLC logical channel info | | | | RBS3-685 |
| - Number of RLC logical channels | | 1 | | RBS3-686 |
| - Downlink transport channel type | | DCH | | RBS3-687 |
| - DL DCH Transport channel identity | | 10 | | RBS3-688 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-689 |
| - Logical channel identity | | 1 | | RBS3-690 |
| - RB identity | | 2 (AM DCCH for RRC) | | |
| - RB mapping info | | 1 RBMuxOption | | |
| - Information for each multiplexing option | | | | |

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| - RLC logical channel mapping indicator | | Not Present | | RBS3-691 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-692 |
| - Uplink transport channel type | | E-DCH | | RBS3-693 |
| - Logical channel identity | | 2 | | RBS3-694 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-695 |
| - DDI | | 2 | | RBS3-696 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-697 |
| - RLC PDU size | | 144 bits | | RBS3-698 |
| - Include in scheduling info | | FALSE | | RBS3-699 |
| - MAC logical channel priority | | 2 | | RBS3-700 |
| - Downlink RLC logical channel info | | | | RBS3-701 |
| - Number of RLC logical channels | | 1 | | RBS3-702 |
| - Downlink transport channel type | | DCH | | RBS3-703 |
| - DL DCH Transport channel identity | | 10 | | RBS3-704 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-705 |
| - Logical channel identity | | 2 | | RBS3-706 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS3-707 |
| - RB mapping info | | | | RBS3-708 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-709 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-710 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-711 |
| - Uplink transport channel type | | E-DCH | | RBS3-712 |
| - Logical channel identity | | 3 | | RBS3-713 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-714 |
| - DDI | | 3 | | RBS3-715 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-716 |
| - RLC PDU size | | 144 bits | | RBS3-717 |
| - Include in scheduling info | | FALSE | | RBS3-718 |
| - MAC logical channel priority | | 3 | | RBS3-719 |
| - Downlink RLC logical channel info | | | | RBS3-720 |
| - Number of RLC logical channels | | 1 | | RBS3-721 |
| - Downlink transport channel type | | DCH | | RBS3-722 |
| - DL DCH Transport channel identity | | 10 | | RBS3-723 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-724 |
| - Logical channel identity | | 3 | | RBS3-725 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS3-726 |
| - RB mapping info | | | | RBS3-727 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-728 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-729 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-730 |
| - Uplink transport channel type | | E-DCH | | RBS3-731 |
| - Logical channel identity | | 4 | | RBS3-732 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-733 |
| - DDI | | 4 | | RBS3-734 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-735 |
| - RLC PDU size | | 144 bits | | RBS3-736 |
| - Include in scheduling info | | FALSE | | RBS3-737 |
| - MAC logical channel priority | | 4 | | RBS3-738 |

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| - Downlink RLC logical channel info | A14, A16 | | Rel-7 | RBS3-739 | |
| - Number of RLC logical channels | | 1 | | RBS3-740 | |
| - Downlink transport channel type | | DCH | | RBS3-741 | |
| - DL DCH Transport channel identity | | 10 | | RBS3-742 | |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-743 | |
| - Logical channel identity | | 4 | | RBS3-744 | |
| RB information to be affected | | | | | RBS3-745 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS3-746 | |
| - RB mapping info | | | | RBS3-747 | |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-748 | |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-749 | |
| - Number of uplink RLC logical channels | | 1 | | RBS3-750 | |
| - Uplink transport channel type | | E-DCH | | RBS3-751 | |
| - Logical channel identity | | 1 | | RBS3-752 | |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-753 | |
| - DDI | | 1 | | RBS3-754 | |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-755 | |
| - RLC PDU size | | 144 bits | | RBS3-756 | |
| - Include in scheduling info | | FALSE | | RBS3-757 | |
| - MAC logical channel priority | | 1 | | RBS3-758 | |
| - Downlink RLC logical channel info | | | | RBS3-759 | |
| - Number of RLC logical channels | | 1 | | RBS3-760 | |
| - Downlink transport channel type | | HS-DSCH | | RBS3-761 | |
| - DL DCH Transport channel identity | | Not present | | RBS3-762 | |
| - DL DSCH Transport channel identity | | Not present | | RBS3-763 | |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS3-764 | |
| - Logical channel identity | | 1 | | RBS3-765 | |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS3-766 | |
| - RB mapping info | | | | RBS3-767 | |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-768 | |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-769 | |
| - Number of uplink RLC logical channels | | 1 | | RBS3-770 | |
| - Uplink transport channel type | | E-DCH | | RBS3-771 | |
| - Logical channel identity | | 2 | | RBS3-772 | |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-773 | |
| - DDI | | 2 | | RBS3-774 | |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-775 | |
| - RLC PDU size | | 144 bits | | RBS3-776 | |
| - Include in scheduling info | | FALSE | | RBS3-777 | |
| - MAC logical channel priority | | 2 | | RBS3-778 | |
| - Downlink RLC logical channel info | | | | RBS3-779 | |
| - Number of RLC logical channels | 1 | RBS3-780 | | | |
| - Downlink transport channel type | HS-DSCH | RBS3-781 | | | |
| - DL DCH Transport channel identity | Not Present | RBS3-782 | | | |
| - DL DSCH Transport channel identity | Not Present | RBS3-783 | | | |

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| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS3-784 |
| - Logical channel identity | | 2 | | RBS3-785 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS3-786 |
| - RB mapping info | | | | RBS3-787 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-788 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-789 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-790 |
| - Uplink transport channel type | | E-DCH | | RBS3-791 |
| - Logical channel identity | | 3 | | RBS3-792 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-793 |
| - DDI | | 3 | | RBS3-794 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-795 |
| - RLC PDU size | | 144 bits | | RBS3-796 |
| - Include in scheduling info | | FALSE | | RBS3-797 |
| - MAC logical channel priority | | 3 | | RBS3-798 |
| - Downlink RLC logical channel info | | | | RBS3-799 |
| - Number of RLC logical channels | | 1 | | RBS3-800 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-801 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-802 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-803 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS3-804 |
| - Logical channel identity | | 3 | | RBS3-805 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS3-806 |
| - RB mapping info | | | | RBS3-807 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS3-808 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-809 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-810 |
| - Uplink transport channel type | | E-DCH | | RBS3-811 |
| - Logical channel identity | | 4 | | RBS3-812 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-813 |
| - DDI | | 4 | | RBS3-814 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS3-815 |
| - RLC PDU size | | 144 bits | | RBS3-816 |
| - Include in scheduling info | | FALSE | | RBS3-817 |
| - MAC logical channel priority | | 4 | | RBS3-818 |
| - Downlink RLC logical channel info | | | | RBS3-819 |
| - Number of RLC logical channels | | 1 | | RBS3-820 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-821 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-822 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-823 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RBS3-824 |
| - Logical channel identity | | 4 | | RBS3-825 |
| Downlink counter synchronization info | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | | RBS3-826 |
| | A12, A13, A14, A15 | | Rel-5 | RBS3-827 |
| PDCP ROHC target mode | A9, A10 | Not Present | Rel-7 | RBS3-828 |
| | A12, A13, A14, A15 | | Rel-5 | RBS3-829 |
| | | | Rel-7 | RBS3-830 |

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| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | | Rel-5 | RBS3-831 |
| - PRACH TFCS | | Not Present | | RBS3-832 |
| - CHOICE mode | | TDD | | RBS3-833 |
| - Individual UL CCTrCH information | | | | RBS3-834 |
| - UL TFCS Identity | | | | RBS3-835 |
| - TFCS ID | | 1 | | RBS3-836 |
| - Shared Channel Indicator | | FALSE | | RBS3-837 |
| - UL TFCS | | | | RBS3-838 |
| - CHOICE TFCl signalling | | Normal | R99 and Rel-4 only | RBS3-839 |
| - TFCl Field 1 information | | | | RBS3-840 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS3-841 |
| - TFCS complete reconfigure information | | | | RBS3-842 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. | | RBS3-843 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Parameter Set | | RBS3-844 |
| - CTFC | | Reference to clause 6.10.3.4 Parameter Set | | RBS3-845 |
| - Power offset information | | | | RBS3-846 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBS3-847 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBS3-848 |
| - CHOICE mode | | TDD | | RBS3-849 |
| - CHOICE Gain Factors | | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBS3-850 |
| - CHOICE mode | | TDD | | RBS3-851 |
| - Gain factor β_d | | 8 | | RBS3-852 |
| - Reference TFC ID | | (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBS3-853 |
| - CHOICE mode | | 0 | | RBS3-854 |
| - TFC subset | | TDD | | RBS3-855 |
| - TFC subset list | | Not Present | | RBS3-856 |
| | | Not Present | | RBS3-857 |
| UL Transport channel information for all transport channels | A12 | | Rel-7 | RBS3-858 |
| - PRACH TFCS | | Not Present | | RBS3-859 |
| - CHOICE mode | | TDD | | RBS3-860 |
| - Individual UL CCTrCH information | | | | RBS3-861 |
| - UL TFCS Identity | | | | RBS3-862 |
| - TFCS ID | | 1 | | RBS3-863 |
| - Shared Channel Indicator | | FALSE | | RBS3-864 |
| - UL TFCS | | | | RBS3-865 |
| - CHOICE TFCl signalling | | Normal | | RBS3-866 |
| - TFCl Field 1 information | | | | RBS3-867 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS3-868 |
| - TFCS complete reconfigure information | | | | RBS3-869 |
| - CHOICE CTFC Size | | ctfc2bit | | RBS3-870 |
| - CTFC information | | | | RBS3-871 |
| - CTFC | | 0 ((UL DCH RAB, DCCH)=(TF0, TF0)) | | RBS3-872 |
| - Power offset information | | | | RBS3-873 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS3-874 |
| - CTFC | | 1 ((UL DCH RAB, DCCH)=(TF0, TF1)) | | RBS3-875 |
| - Power offset information | | | | RBS3-876 |

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| - CHOICE Gain Factors | | Signalled Gain Factors | | RBS3-877 |
| - CHOICE mode | | TDD | | RBS3-878 |
| - Gain factor β_d | | 8 | | RBS3-879 |
| - Reference TFC ID | | 0 | | RBS3-880 |
| - CHOICE mode | | TDD | | RBS3-881 |
| - TFC subset | | Not Present | | RBS3-882 |
| - TFC subset list | | Not Present | | RBS3-883 |
| UL Transport channel information for all transport channels | A13, A14, A15, A16 | Not Present | Rel-7 | RBS3-884 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12 | Not Present | Rel-5 | RBS3-885 |
| Deleted UL TrCH information | A13, A14, A15, A16 | | Rel-7 | RBS3-886 |
| - Uplink transport channel type | DCH | | Rel-7 | RBS3-887 |
| - UL transport channel identity | 5 | | | RBS3-888 |
| Added or Reconfigured UL TrCH information | A1, A3 A4, A5, A6, A7, A9, A10 | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH) | | RBS3-889 |
| - Uplink transport channel type | | DCH | Rel-5 | RBS3-890 |
| - UL Transport channel identity | | 1 | | RBS3-891 |
| - TFS | | | | RBS3-892 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-893 |
| - Dynamic Transport format | | | | RBS3-894 |
| information | | | | RBS3-895 |
| | | | | RBS3-896 |
| | | | | RBS3-897 |
| - RLC Size | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-898 |
| - Number of TBs and TTI List | | Not Present | | RBS3-899 |
| - Transmission Time Interval | | Reference to clause 6.10 Parameter Set All | | RBS3-900 |
| - Number of Transport blocks | | | | RBS3-901 |
| - CHOICE Logical channel list | | | | RBS3-902 |
| - Semi-static Transport Format | | | | RBS3-903 |
| information | | | | RBS3-904 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-905 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-906 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-907 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-908 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-909 |
| - Uplink transport channel type | | DCH | | RBS3-910 |
| - UL Transport channel identity | | 5 | | RBS3-911 |
| - TFS | | | | RBS3-912 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-913 |
| - Dynamic Transport format | | | | RBS3-914 |
| information | | | | RBS3-915 |
| - RLC Size | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-916 |
| - Number of TBs and TTI List | | Not Present | | RBS3-917 |
| - Transmission Time Interval | | Reference to clause 6.10 Parameter Set All | | RBS3-918 |
| - Number of Transport blocks | | | | RBS3-919 |
| - CHOICE Logical channel list | | | | RBS3-920 |
| - Semi-static Transport Format | | | | RBS3-921 |
| information | | | | RBS3-922 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-923 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-924 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-925 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-926 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-927 |
| Added or Reconfigured UL TrCH information | A11 | 1 DCH added for DTCH | | RBS3-928 |
| - Uplink transport channel type | | DCH | | RBS3-929 |
| - UL Transport channel identity | | 4 | | RBS3-930 |
| - TFS | | | | RBS3-931 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-932 |
| - Dynamic Transport format | | | | RBS3-933 |
| information | | | | RBS3-934 |
| - RLC Size | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-935 |
| - Number of TBs and TTI List | | Not Present | | RBS3-936 |
| - Transmission Time Interval | | Reference to clause 6.10 Parameter Set | | RBS3-937 |
| - Number of Transport blocks | | | | RBS3-938 |

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| - CHOICE Logical channel list - Semi-static Transport Format information | | All | | RBS3-935 RBS3-936 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-937 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-938 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-939 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-940 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-941 |
| Added or Reconfigured UL TrCH information | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS3-942 |
| - Uplink transport channel type | | DCH | | RBS3-943 |
| - UL Transport channel identity | | 5 | | RBS3-944 |
| - TFS | | | | RBS3-945 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-946 |
| - Dynamic Transport format information | | | | RBS3-947 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS3-948 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS3-949 |
| - Transmission Time Interval | | Not Present | | RBS3-950 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-951 |
| - CHOICE Logical channel list | | All | | RBS3-952 |
| - Semi-static Transport Format information | | | | RBS3-953 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-954 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-955 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-956 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-957 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-958 |
| - Uplink transport channel type | | DCH | | RBS3-959 |
| - UL Transport channel identity | | 1 | | RBS3-960 |
| - TFS | | | | RBS3-961 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-962 |
| - Dynamic Transport format information | | | | RBS3-963 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS3-964 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS3-965 |
| - Transmission Time Interval | | Not Present | | RBS3-966 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-967 |
| - CHOICE Logical channel list | | All | | RBS3-968 |
| - Semi-static Transport Format information | | | | RBS3-969 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-970 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-971 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-972 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-973 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-974 |
| - Uplink transport channel type | | DCH | | RBS3-975 |
| - UL Transport channel identity | | 2 | | RBS3-976 |
| - TFS | | | | RBS3-977 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-978 |
| - Dynamic Transport format information | | | | RBS3-979 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS3-980 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS3-981 |
| - Transmission Time Interval | | Not Present | | RBS3-982 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-983 |
| - CHOICE Logical channel list | | All | | RBS3-984 |
| - Semi-static Transport Format information | | | | RBS3-985 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-986 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-987 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-988 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-989 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-990 |
| - Uplink transport channel type | | DCH | | RBS3-991 |
| - UL Transport channel identity | | 3 | | RBS3-992 |
| - TFS | | | | RBS3-993 |

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| <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | | Dedicated transport channels | | RBS3-994 |
| | | RBS3-995 | | |
| | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-996 |
| | | Not Present | | RBS3-997 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-998 |
| | | All | | RBS3-999 |
| | | | | RBS3-1000 |
| | | | | RBS3-1001 |
| | | | | RBS3-1002 |
| | | | | RBS3-1003 |
| | RBS3-1004 | | | |
| | RBS3-1005 | | | |
| | RBS3-1006 | | | |
| Added or Reconfigured UL TrCH | A12 | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured | Rel-7 | RBS3-1007 |
| information | | E-DCH | | RBS3-1008 |
| - Uplink transport channel type | | E-DCH | | RBS3-1009 |
| - CHOICE UL parameters | | TDD | | RBS3-1010 |
| - CHOICE mode | | | | RBS3-1011 |
| - HARQ info for E-DCH | | E-DCH | | RBS3-1012 |
| - CHOICE UL parameters | | rvtable | | RBS3-1013 |
| - HARQ RV Configuration | | | | RBS3-1014 |
| - Added or reconfigured E-DCH | | | | |
| MAC-d flow | | | | |
| - E-DCH MAC-d flow identity | 2 | RBS3-1015 | | |
| - E-DCH MAC-d flow power | 0 | RBS3-1016 | | |
| offset | | | | |
| - E-DCH MAC-d flow maximum | 7 | RBS3-1017 | | |
| number of retransmissions | | | | |
| - E-DCH MAC-d flow | Not Present | RBS3-1018 | | |
| multiplexing list | | | | |
| - CHOICE transmission grant | Scheduled grant info | RBS3-1019 | | |
| type | | | | |
| - Uplink transport channel type | DCH | RBS3-1020 | | |
| - UL Transport channel identity | 1 | RBS3-1021 | | |
| - TFS | | RBS3-1022 | | |
| - CHOICE Transport channel type | Dedicated transport channels | RBS3-1023 | | |
| - Dynamic Transport format | | RBS3-1024 | | |
| information | | | | |
| - RLC Size | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | RBS3-1025 | | |
| - Number of TBs and TTI List | Not Present | RBS3-1026 | | |
| - Transmission Time Interval | Reference to clause 6.10 Parameter Set | RBS3-1027 | | |
| - Number of Transport blocks | All | RBS3-1028 | | |
| - CHOICE Logical channel list | | RBS3-1029 | | |
| - Semi-static Transport Format | | RBS3-1030 | | |
| information | | | | |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | RBS3-1031 | | |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | RBS3-1032 | | |
| - Coding Rate | Reference to clause 6.10 Parameter Set | RBS3-1033 | | |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | RBS3-1034 | | |
| - CRC size | Reference to clause 6.10 Parameter Set | RBS3-1035 | | |
| - Uplink transport channel type | DCH | RBS3-1036 | | |
| - UL Transport channel identity | 5 | RBS3-1037 | | |
| - TFS | | RBS3-1038 | | |
| - CHOICE Transport channel type | Dedicated transport channels | RBS3-1039 | | |
| - Dynamic Transport format | | RBS3-1040 | | |
| information | | | | |
| - RLC Size | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | RBS3-1041 | | |
| - Number of TBs and TTI List | Not Present | RBS3-1042 | | |
| - Transmission Time Interval | Reference to clause 6.10 Parameter Set | RBS3-1043 | | |
| - Number of Transport blocks | All | RBS3-1044 | | |
| - CHOICE Logical channel list | | RBS3-1045 | | |
| - Semi-static Transport Format | | RBS3-1046 | | |
| information | | | | |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | RBS3-1047 | | |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | RBS3-1048 | | |

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| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-1049 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-1050 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-1051 |
| Added or Reconfigured UL TrCH information | A13, A14 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-7 | RBS3-1052 |
| - Uplink transport channel type | | E-DCH | | RBS3-1053 |
| - CHOICE UL parameters | | E-DCH | | RBS3-1054 |
| - CHOICE mode | | TDD | | RBS3-1055 |
| - HARQ info for E-DCH | | | | RBS3-1056 |
| - CHOICE mode | | TDD | | RBS3-1057 |
| - HARQ RV Configuration | | rtable | | RBS3-1058 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS3-1059 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-1060 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1061 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS3-1062 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS3-1063 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS3-1064 |
| - CHOICE mode | | TDD | | RBS3-1065 |
| - CHOICE TDD option | | 3.84/7.68Mcps TDD | | RBS3-1066 |
| - Timeslot resource related information | | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' | | RBS3-1067 |
| - Power Resource Related Information | | 32 | | RBS3-1068 |
| - Activation time | | Set to the CFN on which the non-scheduled grant becomes active | | RBS3-1069 |
| - Repetition period and length | | Not present | | RBS3-1070 |
| - Code resource information | | 2/1 | | RBS3-1071 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS3-1072 |
| - E-DCH MAC-d flow identity | | 2 | | RBS3-1073 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1074 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS3-1075 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS3-1076 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS3-1077 |
| Added or Reconfigured UL TrCH information | A15 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-7 | RBS3-1078 |
| - Uplink transport channel type | | E-DCH | | RBS3-1079 |
| - CHOICE UL parameters | | E-DCH | | RBS3-1080 |
| - CHOICE mode | | TDD | | RBS3-1081 |
| - HARQ info for E-DCH | | | | RBS3-1082 |
| - CHOICE mode | | TDD | | RBS3-1083 |
| - HARQ RV Configuration | | rtable | | RBS3-1084 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS3-1085 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-1086 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1087 |
| offset | | | | |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS3-1088 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS3-1089 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS3-1090 |
| - CHOICE mode | | TDD | | RBS3-1091 |
| - CHOICE TDD option | | 3.84/7.68Mcps TDD | | RBS3-1092 |
| - Timeslot resource related information | | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' | | RBS3-1093 |

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| - Power Resource Related Information | | 32 | | RBS3-1094 |
| - Activation time | | Set to the CFN on which the non-scheduled grant becomes active | | RBS3-1095 |
| - Repetition period and length | | Not present | | RBS3-1096 |
| - Code resource information | | 2/1 | | RBS3-1097 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS3-1098 |
| - E-DCH MAC-d flow identity | | 2 | | RBS3-1099 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1100 |
| offset | | 7 | | RBS3-1101 |
| number of retransmissions | | Not Present | | RBS3-1102 |
| multiplexing list | | | | |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS3-1103 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS3-1104 |
| - E-DCH MAC-d flow identity | | 3 | | RBS3-1105 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1106 |
| offset | | 7 | | RBS3-1107 |
| number of retransmissions | | Not Present | | RBS3-1108 |
| multiplexing list | | | | |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS3-1109 |
| Added or Reconfigured UL TrCH information | A16 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-7 | RBS3-1110 |
| - Uplink transport channel type | | E-DCH | | RBS3-1111 |
| - CHOICE UL parameters | | E-DCH | | RBS3-1112 |
| - CHOICE mode | | TDD | | RBS3-1113 |
| - HARQ info for E-DCH | | | | RBS3-1114 |
| - CHOICE mode | | TDD | | RBS3-1115 |
| - HARQ RV Configuration | | rvtable | | RBS3-1116 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS3-1117 |
| - E-DCH MAC-d flow identity | | 1 | | RBS3-1118 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1119 |
| offset | | 7 | | RBS3-1120 |
| number of retransmissions | | Not Present | | RBS3-1121 |
| multiplexing list | | | | |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS3-1122 |
| - CHOICE mode | | TDD | | RBS3-1123 |
| - CHOICE TDD option | | 3.84/7.68Mcps TDD | | RBS3-1124 |
| - Timeslot resource related information | | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' | | RBS3-1125 |
| - Power Resource Related Information | | 32 | | RBS3-1126 |
| - Activation time | | Set to the CFN on which the non-scheduled grant becomes active | | RBS3-1127 |
| - Repetition period and length | | Not present | | RBS3-1128 |
| - Code resource information | | 2/1 | | RBS3-1129 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS3-1130 |
| - E-DCH MAC-d flow identity | | 2 | | RBS3-1131 |
| - E-DCH MAC-d flow power | | 0 | | RBS3-1132 |
| offset | | 7 | | RBS3-1133 |
| number of retransmissions | | Not Present | | RBS3-1134 |
| - E-DCH MAC-d flow | | | | |

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| multiplexing list - CHOICE transmission grant type | | Scheduled grant info | | RBS3-1135 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS3-1136 |
| - E-DCH MAC-d flow identity | | 4 | | RBS3-1137 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS3-1138 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS3-1139 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS3-1140 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS3-1141 |
| DL Transport channel information common for all transport channel | A1, A2, A7, A8 | | | RBS3-1142 |
| - SCCPCH TFCS | | Not Present | | RBS3-1143 |
| - CHOICE mode | | TDD | | RBS3-1144 |
| - Individual DL CCTrCH information | | 1 CCTrCh | | RBS3-1145 |
| - DL TFCS identity | | 1 | | RBS3-1146 |
| - CHOICE DL parameters | | SameasUL | | RBS3-1147 |
| - UL DCH TFCS Identity | | 1 | | RBS3-1148 |
| DL Transport channel information common for all transport channel | A3, A4, A5, A6, A11 A10 | | Rel-5 | RBS3-1149 |
| - SCCPCH TFCS | A12, A13, A15 | Not Present | Rel-7 | RBS3-1150 |
| - CHOICE mode | | TDD | | RBS3-1151 |
| - Individual DL CCTrCH information | | 1 CCTrCh | | RBS3-1152 |
| - DL TFCS identity | | 1 | | RBS3-1153 |
| - CHOICE DL parameters | | Independent | | RBS3-1154 |
| - DL TFCS | | | | RBS3-1155 |
| - TFCI Field 1 Information | | | | RBS3-1156 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS3-1157 |
| - TFCS complete reconfigure | | | | RBS3-1158 |
| - CHOICE CTFC Size | | | | RBS3-1159 |
| - CTFC information | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. | | RBS3-1160 |
| - CTFC | | This IE is repeated for TFC numbers and reference to clause 6.10.3.4 | | RBS3-1161 |
| - Power offset information | | Reference to clause 6.10.3.4 Parameter Set | | RBS3-1162 |
| | | Not Present | | RBS3-1163 |
| DL Transport channel information common for all transport channel | A9 | | Rel-5 | RBS3-1164 |
| - SCCPCH TFCS | | Not Present | | RBS3-1165 |
| - CHOICE mode | | TDD | | RBS3-1166 |
| - Individual DL CCTrCH information | | 1 CCTrCh | | RBS3-1167 |
| - DL TFCS identity | | 1 | | RBS3-1168 |
| - CHOICE DL parameters | | Independent | | RBS3-1169 |
| - DL TFCS | | | | RBS3-1170 |
| - TFCI Field 1 Information | | Complete reconfiguration | | RBS3-1171 |
| - CHOICE TFCS representation | | | | RBS3-1172 |
| - TFCS complete reconfigure | | | | RBS3-1173 |
| - CHOICE CTFC Size | | ctfc2bit | | RBS3-1174 |
| - CTFC information | | | | RBS3-1175 |
| - CTFC | | 0 | | RBS3-1176 |
| - Power offset information | | ((DL DCH RAB, DCCH)=(TF0, TF0)) | | RBS3-1177 |
| - CTFC | | Not Present | | RBS3-1178 |
| - Power offset information | | 1 | | RBS3-1179 |
| | | ((DL DCH RAB, DCCH)=(TF0, TF1)) | | RBS3-1180 |
| DL Transport channel information common for all transport channel | A14, A16 | Not Present | Rel-7 | RBS3-1181 |

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| Deleted DL TrCH information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13 | Not Present | Rel-5 Rel-7 | RBS3-1182 RBS3-1183 RBS3-1184 |
| Deleted DL TrCH information - Downlink transport channel type - DL Transport channel identity | A14, A16 | DCH 10 | Rel-6 | RBS3-1185 RBS3-1186 RBS3-1187 |
| Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1 | 1 DCH added, 1 DCH reconfigured DCH 6 Same as UL DCH 1 -2.0 | | RBS3-1188 RBS3-1189 RBS3-1190 RBS3-1191 RBS3-1192 RBS3-1193 RBS3-1194 RBS3-1195 RBS3-1196 RBS3-1197 RBS3-1198 RBS3-1199 RBS3-1200 RBS3-1201 RBS3-1202 |
| Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute | A3, A4, A5, A6, A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 DCH 6 Explicit Except for RAB with the symmetric DL and UL rate: Same as UL Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set only including TF0 All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | | RBS3-1203 RBS3-1204 RBS3-1205 RBS3-1206 RBS3-1207 RBS3-1208 RBS3-1209 RBS3-1210 RBS3-1211 RBS3-1212 RBS3-1213 RBS3-1214 RBS3-1215 RBS3-1216 RBS3-1217 RBS3-1218 RBS3-1219 RBS3-1220 RBS3-1221 RBS3-1222 RBS3-1223 RBS3-1224 RBS3-1225 RBS3-1226 |
| Added or Reconfigured DL TrCH information - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity | A2, A8 | Reference to clause 6.10 Parameter Set -2.0 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 10 Same as UL DCH 5 2.0 DCH 6 | | RBS3-1227 RBS3-1228 RBS3-1229 RBS3-1230 RBS3-1231 RBS3-1232 RBS3-1233 RBS3-1234 RBS3-1235 RBS3-1236 RBS3-1237 RBS3-1238 RBS3-1239 |

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| <ul style="list-style-type: none"> - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information | | Explicit | | RBS3-1240 | | |
| | | Dedicated transport channel | | RBS3-1241 | | |
| | | | | RBS3-1242 | | |
| | | | | RBS3-1243 | | |
| | | <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Dynamic transport format information | | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | RBS3-1244 |
| | | | | | | RBS3-1245 |
| | | | | | | RBS3-1246 |
| | | <ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information | | | Not Present | RBS3-1247 |
| | | | | | Reference to clause 6.10 Parameter Set All | RBS3-1248 |
| | | | | | | RBS3-1249 |
| | | | | | | RBS3-1250 |
| | | <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information | | | Reference to clause 6.10 Parameter Set | RBS3-1251 |
| | | | | | Reference to clause 6.10 Parameter Set | RBS3-1252 |
| | | | | | Reference to clause 6.10 Parameter Set | RBS3-1253 |
| | | | | | Reference to clause 6.10 Parameter Set | RBS3-1254 |
| | | | | | Reference to clause 6.10 Parameter Set | RBS3-1255 |
| | | | | | | RBS3-1256 |
| | | | | | Not Present | RBS3-1257 |
| | | | | | DCH | RBS3-1258 |
| | | | | | 7 | RBS3-1259 |
| | | | | | Explicit | RBS3-1260 |
| | | | | | Dedicated transport channel | RBS3-1261 |
| | | | | RBS3-1262 | | |
| | | | | RBS3-1263 | | |
| | | <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Dynamic transport format information | | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | RBS3-1264 |
| | | | | | | RBS3-1265 |
| | | | | | | RBS3-1266 |
| <ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information | | Not Present | RBS3-1267 | | | |
| | | Reference to clause 6.10 Parameter Set All | RBS3-1268 | | | |
| | | | RBS3-1269 | | | |
| | | | RBS3-1270 | | | |
| <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information | | Reference to clause 6.10 Parameter Set | RBS3-1271 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1272 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1273 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1274 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1275 | | | |
| | | | RBS3-1276 | | | |
| | | Not Present | RBS3-1277 | | | |
| | | DCH | RBS3-1278 | | | |
| | | 8 | RBS3-1279 | | | |
| | | Explicit | RBS3-1280 | | | |
| | | Dedicated transport channel | RBS3-1281 | | | |
| | RBS3-1282 | | | | | |
| | RBS3-1283 | | | | | |
| <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List information | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | RBS3-1284 | | | |
| | | | RBS3-1285 | | | |
| <ul style="list-style-type: none"> - Dynamic transport format information | | Not Present | RBS3-1286 | | | |
| | | Reference to clause 6.10 Parameter Set All | RBS3-1287 | | | |
| | | | RBS3-1288 | | | |
| | | | RBS3-1289 | | | |
| <ul style="list-style-type: none"> - Semi-static Transport Format information | | Reference to clause 6.10 Parameter Set | RBS3-1290 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1291 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1292 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1293 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1294 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1295 | | | |
| | | Reference to clause 6.10 Parameter Set | RBS3-1296 | | | |
| Not Present | RBS3-1297 | | | | | |

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| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Dynamic transport format information <ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info <ul style="list-style-type: none"> - Number of Processes - CHOICE <i>Memory</i> | A9 A12 | 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) | Rel-5 Rel-7 | RBS3-1298 |
| | | DCH | | RBS3-1299 |
| | | 10 | | RBS3-1300 |
| | | Same as UL | | RBS3-1301 |
| | | DCH | | RBS3-1302 |
| | | 5 | | RBS3-1303 |
| | | | | RBS3-1304 |
| | | | | RBS3-1305 |
| | | -2.0 | | RBS3-1306 |
| | | DCH | | RBS3-1307 |
| | | 6 | | RBS3-1308 |
| | | Explicit | | RBS3-1309 |
| | | | | RBS3-1310 |
| | | Dedicated transport channel | | RBS3-1311 |
| | | | | RBS3-1312 |
| | | | | RBS3-1313 |
| | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-1314 |
| | | | | RBS3-1315 |
| | | Not Present | | RBS3-1316 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1317 |
| | | All | | RBS3-1318 |
| | | | | RBS3-1319 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1320 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1321 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1322 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1323 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1324 |
| | | | | RBS3-1325 |
| | | -2.0 | | RBS3-1326 |
| | | HS-DSCH | | RBS3-1327 |
| | | Not Present | | RBS3-1328 |
| | | HS-DSCH | | RBS3-1329 |
| | | | | RBS3-1330 |
| Reference to clause 6.10.2.4.5 Parameter Set | RBS3-1331 | | | |
| Implicit | RBS3-1332 | | | |
| | RBS3-1333 | | | |
| (one queue) | RBS3-1334 | | | |
| 0 | RBS3-1335 | | | |
| 0 | RBS3-1336 | | | |
| 50 | RBS3-1337 | | | |
| 16 | RBS3-1338 | | | |
| | RBS3-1339 | | | |
| 336 | RBS3-1340 | | | |
| 0 | RBS3-1341 | | | |
| Not present | RBS3-1342 | | | |
| Not present | RBS3-1343 | | | |
| 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | A10 | Rel-5 | RBS3-1344 | |
| DCH | RBS3-1345 | | | |
| 10 | RBS3-1346 | | | |
| Same as UL | RBS3-1347 | | | |
| DCH | RBS3-1348 | | | |
| 5 | RBS3-1349 | | | |
| | RBS3-1350 | | | |
| -2.0 | RBS3-1351 | | | |
| HS-DSCH | RBS3-1352 | | | |
| Not Present | RBS3-1353 | | | |
| HS-DSCH | RBS3-1354 | | | |
| | RBS3-1355 | | | |
| Reference to clause 6.10.2.4.5 | RBS3-1356 | | | |

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| <ul style="list-style-type: none"> - CHOICE <i>Memory Partitioning</i> - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list <ul style="list-style-type: none"> - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info <ul style="list-style-type: none"> - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target | A11 | Parameter Set Implicit | | RBS3-1357 | | |
| | | (one queue) | | RBS3-1358 | | |
| | | Added or Reconfigured DL TrCH information | | 0 | | RBS3-1360 |
| | | - Downlink transport channel type | | 0 | | RBS3-1361 |
| | | - DL Transport channel identity | | 50 | | RBS3-1362 |
| | | - CHOICE DL parameters | | 16 | | RBS3-1363 |
| | | - TFS | | | | RBS3-1364 |
| | | - CHOICE Transport channel type | | | | RBS3-1365 |
| | | - Dynamic transport format information | | 336 | | RBS3-1366 |
| | | - RLC Size | | 0 | | RBS3-1366 |
| | | - Number of TBs and TTI List | | Not present | | RBS3-1367 |
| | | - Dynamic transport format information | | Not present | | RBS3-1368 |
| | | - Transmission Time Interval | | 1 DCH for DTCH | | RBS3-1369 |
| | | - Number of Transport blocks | | DCH | | RBS3-1370 |
| | | - CHOICE Logical channel list | | 9 | | RBS3-1371 |
| | | - Semi-static Transport Format information | | Explicit | | RBS3-1372 |
| | | - Transmission time interval | | Dedicated transport channel | | RBS3-1373 |
| | | - Type of channel coding | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-1374 |
| | | - Coding Rate | | | | RBS3-1375 |
| | | - Rate matching attribute | | | | RBS3-1376 |
| - CRC size | | | | RBS3-1376 | | |
| - DCH quality target | | | | RBS3-1377 | | |
| - BLER Quality value | | | | RBS3-1378 | | |
| -2.0 | | | | RBS3-1379 | | |
| Added or Reconfigured DL TrCH information | A13 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 | RBS3-1390 | | |
| - Downlink transport channel type | | DCH | | RBS3-1391 | | |
| - DL Transport channel identity | | 10 | | RBS3-1392 | | |
| - CHOICE DL parameters | | Explicit | | RBS3-1393 | | |
| - TFS | | | | RBS3-1394 | | |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-1395 | | |
| - Dynamic Transport format information | | | | RBS3-1396 | | |
| - RLC Size | | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) | | RBS3-1397 | | |
| - Number of TBs and TTI List | | | | RBS3-1398 | | |
| - Transmission Time Interval | | Not Present | | RBS3-1399 | | |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-1400 | | |
| - CHOICE Logical channel list | | All | | RBS3-1401 | | |
| - Semi-static Transport Format information | | | | RBS3-1402 | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-1403 | | |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-1404 | | |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-1405 | | |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-1406 | | |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-1407 | | |
| - DCH quality target | | | | RBS3-1408 | | |
| - BLER Quality value | | -20 (-2.0) | | RBS3-1409 | | |
| - Downlink transport channel type | | HS-DSCH | | RBS3-1410 | | |
| - DL Transport channel identity | | Not Present | | RBS3-1411 | | |
| - CHOICE DL parameters | | HS-DSCH | | RBS3-1412 | | |

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| - HARQ Info | | Reference to clause 6.10 Parameter Set Implicit | | RBS3-1413 |
| - Number of Processes | | | | RBS3-1414 |
| - CHOICE <i>Memory</i> | | | | RBS3-1415 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS3-1416 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBS3-1417 |
| - MAC-hs queue Id | | 0 | | RBS3-1418 |
| - MAC-d Flow Identity | | 0 | | RBS3-1419 |
| - T1 | | 50 | | RBS3-1420 |
| - MAC-hs window size | | 16 | | RBS3-1421 |
| - MAC-d PDU size Info | | | | RBS3-1422 |
| - MAC-d PDU size | | 336 | | RBS3-1423 |
| - MAC-d PDU size index | | 0 | | RBS3-1424 |
| - MAC-hs queue to delete list | | Not present | | RBS3-1425 |
| - DCH quality target | | Not present | | RBS3-1426 |
| Added or Reconfigured DL TrCH information | A14 | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-7 | RBS3-1427 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-1428 |
| - DL Transport channel identity | | Not Present | | RBS3-1429 |
| - CHOICE DL parameters | | HS-DSCH | | RBS3-1430 |
| - HARQ Info | | | | RBS3-1431 |
| - Number of Processes | | Reference to clause 6.10 Parameter Set Implicit | | RBS3-1432 |
| - CHOICE <i>Memory</i> | | | | RBS3-1433 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS3-1434 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS3-1435 |
| - MAC-hs queue Id | | 0 (for DTCH) | | RBS3-1436 |
| - MAC-d Flow Identity | | 0 | | RBS3-1437 |
| - T1 | | 50 | | RBS3-1438 |
| - MAC-hs window size | | 16 | | RBS3-1439 |
| - MAC-d PDU size Info | | | | RBS3-1440 |
| - MAC-d PDU size | | 336 | | RBS3-1441 |
| - MAC-d PDU size index | | 0 | | RBS3-1442 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RBS3-1443 |
| - MAC-d Flow Identity | | 1 | | RBS3-1444 |
| - T1 | | 50 | | RBS3-1445 |
| - MAC-hs window size | | 16 | | RBS3-1446 |
| - MAC-d PDU size Info | | | | RBS3-1447 |
| - MAC-d PDU size | | 148 | | RBS3-1448 |
| - MAC-d PDU size index | | 0 | | RBS3-1449 |
| - MAC-hs queue to delete list | | Not present | | RBS3-1450 |
| - DCH quality target | | Not present | | RBS3-1451 |
| Added or Reconfigured DL TrCH information | A15 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 | RBS3-1452 |
| - Downlink transport channel type | | DCH | | RBS3-1453 |
| - DL Transport channel identity | | 10 | | RBS3-1454 |
| - CHOICE DL parameters | | Explicit | | RBS3-1455 |
| - TFS | | | | RBS3-1456 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-1457 |
| - Dynamic Transport format information | | | | RBS3-1458 |
| - RLC Size | | Reference to clause 6.10 Parameter Set | | RBS3-1459 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS3-1460 |
| - Transmission Time Interval | | Not Present | | RBS3-1461 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-1462 |
| - CHOICE Logical channel list | | All | | RBS3-1463 |
| - Semi-static Transport Format information | | | | RBS3-1464 |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-1465 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-1466 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-1467 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-1468 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-1469 |

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| - DCH quality target | | -20 (-2.0) | | RBS3-1470 |
| - BLER Quality value | | HS-DSCH | | RBS3-1471 |
| - Downlink transport channel type | | Not Present | | RBS3-1472 |
| - DL Transport channel identity | | HS-DSCH | | RBS3-1473 |
| - CHOICE DL parameters | | | | RBS3-1474 |
| - HARQ Info | | | | RBS3-1475 |
| - Number of Processes | | Reference to clause 6.10 Parameter Set | | RBS3-1476 |
| - CHOICE <i>Memory</i> | | Implicit | | RBS3-1477 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS3-1478 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS3-1479 |
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS3-1480 |
| - MAC-d Flow Identity | | 0 | | RBS3-1481 |
| - T1 | | 50 | | RBS3-1482 |
| - MAC-hs window size | | 16 | | RBS3-1483 |
| - MAC-d PDU size Info | | | | RBS3-1484 |
| - MAC-d PDU size | | 336 | | RBS3-1485 |
| - MAC-d PDU size index | | 0 | | RBS3-1486 |
| - MAC-hs queue Id | | 2 (for second DTCH) | | RBS3-1487 |
| - MAC-d Flow Identity | | 2 | | RBS3-1488 |
| - T1 | | 50 | | RBS3-1489 |
| - MAC-hs window size | | 16 | | RBS3-1490 |
| - MAC-d PDU size Info | | | | RBS3-1491 |
| - MAC-d PDU size | | 336 | | RBS3-1492 |
| - MAC-d PDU size index | | 0 | | RBS3-1493 |
| - MAC-hs queue to delete list | | Not present | | RBS3-1494 |
| - DCH quality target | | Not present | | RBS3-1495 |
| Added or Reconfigured DL TrCH information | A16 | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH) | Rel-7 | RBS3-1496 |
| - Downlink transport channel type | | HS-DSCH | | RBS3-1497 |
| - DL Transport channel identity | | Not Present | | RBS3-1498 |
| - CHOICE DL parameters | | HS-DSCH | | RBS3-1499 |
| - HARQ Info | | | | RBS3-1500 |
| - Number of Processes | | Reference to clause 6.10 Parameter Set | | RBS3-1501 |
| - CHOICE <i>Memory</i> | | Implicit | | RBS3-1502 |
| <i>Partitioning</i> | | | | |
| - Added or reconfigured MAC-d flow | | | | RBS3-1503 |
| - MAC-hs queue to add or reconfigure list | | (three queues) | | RBS3-1504 |
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS3-1505 |
| - MAC-d Flow Identity | | 0 | | RBS3-1506 |
| - T1 | | 50 | | RBS3-1507 |
| - MAC-hs window size | | 16 | | RBS3-1508 |
| - MAC-d PDU size Info | | | | RBS3-1509 |
| - MAC-d PDU size | | 336 | | RBS3-1510 |
| - MAC-d PDU size index | | 0 | | RBS3-1511 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RBS3-1512 |
| - MAC-d Flow Identity | | 1 | | RBS3-1513 |
| - T1 | | 50 | | RBS3-1514 |
| - MAC-hs window size | | 16 | | RBS3-1515 |
| - MAC-d PDU size Info | | | | RBS3-1516 |
| - MAC-d PDU size | | 148 | | RBS3-1517 |
| - MAC-d PDU size index | | 0 | | RBS3-1518 |
| - MAC-hs queue Id | | 3 (for second DTCH) | | RBS3-1519 |
| - MAC-d Flow Identity | | 3 | | RBS3-1520 |
| - T1 | | 50 | | RBS3-1521 |
| - MAC-hs window size | | 16 | | RBS3-1522 |
| - MAC-d PDU size Info | | | | RBS3-1523 |
| - MAC-d PDU size | | 112 | | RBS3-1524 |
| - MAC-d PDU size index | | 0 | | RBS3-1525 |
| - MAC-d PDU size | | 144 | | RBS3-1526 |
| - MAC-d PDU size index | | 1 | | RBS3-1527 |
| - MAC-d PDU size | | 160 | | RBS3-1528 |
| - MAC-d PDU size index | | 2 | | RBS3-1529 |

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| - MAC-d PDU size | | 176 | | RBS3-1530 |
| - MAC-d PDU size index | | 3 | | RBS3-1531 |
| - MAC-d PDU size | | 192 | | RBS3-1532 |
| - MAC-d PDU size index | | 4 | | RBS3-1533 |
| - MAC-d PDU size | | 224 | | RBS3-1534 |
| - MAC-d PDU size index | | 5 | | RBS3-1535 |
| - MAC-d PDU size | | 296 | | RBS3-1536 |
| - MAC-d PDU size index | | 6 | | RBS3-1537 |
| - MAC-d PDU size | | 344 | | RBS3-1538 |
| - MAC-d PDU size index | | 7 | | RBS3-1539 |
| - MAC-hs queue to delete list | | Not present | | RBS3-1540 |
| - DCH quality target | | Not present | | RBS3-1541 |
| Frequency info | A1, A2, A3, A4, A5, A7, A8, 11, A9, A10, A12, A13, A14, A15, A16 | | Rel-5 Rel-7 | RBS3-1542 RBS3-1543 RBS3-1544 |
| - CHOICE mode | | TDD | | RBS3-1545 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present. | | RBS3-1546 |
| Frequency info | A6 | Not Present | | RBS3-1547 |
| Maximum allowed UL TX power | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16 | 33dBm | Rel-5 Rel-7 | RBS3-1548 RBS3-1549 RBS3-1550 |
| Maximum allowed UL TX power | A5, A6 | Not Present | | RBS3-1551 |
| CHOICE channel requirement | A1, A2, A3, A4, A7, A8, A9, A10, A11 | Uplink DPCH info | R99 and Rel-4 only | RBS3-1552 |
| - Uplink DPCH power control info | | | | RBS3-1553 |
| - CHOICE mode | | TDD | | RBS3-1554 |
| - UL target SIR | | Not Present | | RBS3-1555 |
| - CHOICE UL OL PC info | | Broadcast UL OL PC info | | RBS3-1556 |
| - CHOICE mode | | TDD | | RBS3-1557 |
| - Uplink Timing Advance Control | | Enabled | | RBS3-1558 |
| - CHOICE Timing Advance | | 3.84 Mcps TDD | | RBS3-1559 |
| - CHOICE TDD option | | Determined by observed timing deviation of the RACH at the node B | | RBS3-1560 |
| - UL Timing Advance | | 1 CCTrCh | | RBS3-1561 |
| - UL CCTrCH List | | 1 | | RBS3-1562 |
| - TFCS Id | | +20dB | | RBS3-1563 |
| - UL target SIR | | Not present | | RBS3-1564 |
| - Activation time | | Not present | | RBS3-1565 |
| - Duration | | Not present | | RBS3-1566 |
| - Common timeslot info | | | | RBS3-1567 |
| - 2 nd interleaving mode | | Reference to clause 6.10 Parameter Set | | RBS3-1568 |
| - TFCI coding | | Reference to clause 6.10 Parameter Set | | RBS3-1569 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBS3-1570 |
| - Repetition Period | | Reference to clause 6.10 Parameter Set | | RBS3-1571 |
| - Repetition Length | | Reference to clause 6.10 Parameter Set | | RBS3-1572 |
| - Uplink DPCH timeslots and codes | | | | RBS3-1573 |
| - Dynamic SF usage | | TRUE | | RBS3-1574 |
| - Timeslot number | | The number of an uplink timeslot that has unassigned codes. | | RBS3-1575 |
| - TFCI existence | | TRUE | | RBS3-1576 |
| - Midamble shift and burst type | | | | RBS3-1577 |
| - CHOICE TDD option | | 3.84 Mcps | | RBS3-1578 |
| - CHOICE Burst Type | | Reference to clause 6.10 Parameter Set | | RBS3-1579 |
| - Midamble Allocation Mode | | Default | | RBS3-1580 |
| - Midamble configuration | | Choose lowest possible Kcell value given burst type | | RBS3-1581 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBS3-1582 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the | | RBS3-1583 |

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| - Channelisation code | | needs of clause 6.10 Parameter Set. (i/SF) where i denotes an unassigned code | | RBS3-1584 |
| - CHOICE more timeslots | | matching the SF specified in clause 6.10 Parameter Set. | | RBS3-1585 |
| - UL CCTrCH List to Remove CHOICE channel requirement | A5,A6 | The presence of this IE depends upon the number of resources specified in clause 6.10 Parameter Set and the number of slots in which they are being assigned. Not present Not Present | Rel-5 and earlier | RBS3-1586 RBS3-1587 |
| Uplink DPCH info | A12, A13, A14, A15, A16 | | Rel-7 | RBS3-1588 |
| - Uplink DPCH power control info | | TDD | | RBS3-1589 |
| - CHOICE mode | | Not Present | | RBS3-1590 |
| - UL target SIR | | Broadcast UL OL PC info | | RBS3-1591 |
| - CHOICE UL OL PC info | | TDD | | RBS3-1592 |
| - CHOICE mode | | Enabled | | RBS3-1593 |
| - Uplink Timing Advance Control | | 3.84 Mcps TDD | | RBS3-1594 |
| - CHOICE Timing Advance | | Determined by observed timing deviation of the RACH at the node B | | RBS3-1595 |
| - CHOICE TDD option | | 1 CCTrCh | | RBS3-1596 |
| - UL Timing Advance | | 1 | | RBS3-1597 |
| - UL CCTrCH List | | +20dB | | RBS3-1598 |
| - TFCS Id | | Not present | | RBS3-1599 |
| - UL target SIR | | Not present | | RBS3-1600 |
| - Activation time | | Not present | | RBS3-1601 |
| - Duration | | Reference to clause 6.10 Parameter Set | | RBS3-1602 |
| - Common timeslot info | | Reference to clause 6.10 Parameter Set | | RBS3-1603 |
| - 2 nd interleaving mode | | Reference to clause 6.10 Parameter Set | | RBS3-1604 |
| - TFCI coding | | Reference to clause 6.10 Parameter Set | | RBS3-1605 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBS3-1606 |
| - Repetition Period | | Reference to clause 6.10 Parameter Set | | RBS3-1607 |
| - Repetition Length | | Reference to clause 6.10 Parameter Set | | RBS3-1608 |
| - Uplink DPCH timeslots and codes | | Reference to clause 6.10 Parameter Set | | RBS3-1609 |
| - Dynamic SF usage | | TRUE | | RBS3-1610 |
| - Timeslot number | | The number of an uplink timeslot that has unassigned codes. | | RBS3-1611 |
| - TFCI existence | | TRUE | | RBS3-1612 |
| - Midamble shift and burst type | | 3.84 Mcps | | RBS3-1613 |
| - CHOICE TDD option | | Reference to clause 6.10 Parameter Set | | RBS3-1614 |
| - CHOICE Burst Type | | Default | | RBS3-1615 |
| - Midamble Allocation Mode | | Choose lowest possible Kcell value given burst type | | RBS3-1616 |
| - Midamble configuration | | 3.84 Mcps TDD | | RBS3-1617 |
| - CHOICE TDD option | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6.10 Parameter Set. | | RBS3-1618 |
| - First timeslot Code List | | (i/SF) where i denotes an unassigned code | | RBS3-1619 |
| - Channelisation code | | matching the SF specified in clause 6.10 Parameter Set. | | RBS3-1620 |
| - CHOICE more timeslots | | The presence of this IE depends upon the number of resources specified in clause 6.10 Parameter Set and the number of slots in which they are being assigned. | | RBS3-1621 |
| - UL CCTrCH List to Remove E-DCH info | A12, A13, A14, A15, A16 | Not present | Rel-7 | RBS3-1622 RBS3-1623 |
| - MAC-es/e reset indicator | | TRUE | | RBS3-1624 |
| - CHOICE mode | | TDD | | RBS3-1625 |
| - CHOICE TDD mode | | 3.84/7.68Mcps TDD | | RBS3-1626 |

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| - E-RUCCH info | | 0dB | | RBS3-1627 |
| - E-RUCCH constant value | | 0.9 | | RBS3-1628 |
| - E-RUCCH persistence scaling | | 100ms | | RBS3-1629 |
| - T-RUCCH | | Not Present | | RBS3-1630 |
| - E-RUCCH timeslot number | | Not Present | | RBS3-1631 |
| - E-RUCCH midamble | | Not Present | | RBS3-1632 |
| - T-adv | | Not Present | | RBS3-1633 |
| - T-SCHED | | Not Present | | RBS3-1634 |
| - CHOICE TDD option | | 3.84Mcps TDD | | RBS3-1635 |
| - CHOICE SF | | Not present | | RBS3-1636 |
| - E-PUCH info | | | | RBS3-1637 |
| - E-TFCS information | | | | RBS3-1638 |
| - Reference Beta Information | | Reference to clause 6.10 Parameter Set | | RBS3-1639 |
| QPSK list | | | | |
| - Reference Code Rate | | Reference to clause 6.10 Parameter Set | | RBS3-1640 |
| - Reference beta | | Reference to clause 6.10 Parameter Set | | RBS3-1641 |
| - Reference Beta Information | | Reference to clause 6.10 Parameter Set | | RBS3-1642 |
| 16QAM list | | | | |
| - Reference Code Rate | | Reference to clause 6.10 Parameter Set | | RBS3-1643 |
| - Reference beta | | Reference to clause 6.10 Parameter Set | | RBS3-1644 |
| - CHOICE TDD mode | | 3.84/7.68 Mcps TDD | | RBS3-1645 |
| - N _{E-UCCH} | | Not Present | | RBS3-1646 |
| - E-PUCH constant value | | 0dB | | RBS3-1647 |
| - E-PUCH TS configuration list | | Reference to clause 6.10 Parameter Set | | RBS3-1648 |
| - TS number | | Reference to clause 6.10 Parameter Set | | RBS3-1649 |
| - CHOICE <i>Burst Type</i> | | Reference to clause 6.10 Parameter Set | | RBS3-1650 |
| - Midamble configuration | | Reference to clause 6.10 Parameter Set | | RBS3-1651 |
| - E-PUCH code hopping | | TRUE | | RBS3-1652 |
| - E-PUCH TPC step size | | 1dB | | RBS3-1653 |
| - Minimum allowed code rate | | Reference to clause 6.10 Parameter Set | | RBS3-1654 |
| - Maximum allowed code rate | | Reference to clause 6.10 Parameter Set | | RBS3-1655 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A11 | TDD | R99 and Rel-4 only | RBS3-1656 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | Rel-5 | RBS3-1657 |
| Downlink HS-PDSCH Information | A9, A10 | | Rel-5 | RBS3-1658 |
| | A12, A13, A14, A15, A16 | | Rel-7 | RBS3-1659 |
| - HS-SCCH Info | | | | RBS3-1660 |
| - CHOICE mode | | TDD | | RBS3-1661 |
| - CHOICE TDD option | | 3.84 Mcps | | RBS3-1662 |
| - Ack-Nack Power Offset | | 0dB | | RBS3-1663 |
| - HS-SICH Power Control Info | | | | RBS3-1664 |
| - UL SIR target | | 0dB | | RBS3-1665 |
| - HS-SICH Constant Value | | -10dB | | RBS3-1666 |
| - D _{hs-sync} | | Not present | | RBS3-1667 |
| - HS-SCCH Set Configuration | | 4 | | RBS3-1668 |
| - Timeslot number | | The timeslot in which HS-SCCH is to be configured | | RBS3-1669 |
| - Channelisation code | | CC16/x where x is a previously unassigned channelisation code in this TS | | RBS3-1670 |
| - Midamble Allocation mode | | Default | | RBS3-1671 |
| - Midamble configuration | | 8 | | RBS3-1672 |
| - BLER target | | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | | RBS3-1673 |
| - HS-SICH configuration | | | | RBS3-1674 |
| - Timeslot number | | The timeslot in which HS-SICH is to be configured | | RBS3-1675 |
| - Channelisation code | | CC16/x where x is a previously unassigned channelisation code in this TS | | RBS3-1676 |
| - Midamble Allocation mode | | Default | | RBS3-1677 |
| - Midamble configuration | | 8 | | RBS3-1678 |
| - Measurement Feedback Info | | Not Present | | RBS3-1679 |
| - CHOICE mode | | TDD | | RBS3-1680 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBS3-1681 |

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| - HS-PDSCH Timeslot Configuration | | | | RBS3-1682 |
| - HS-PDSCH Timeslot Configuration List | | Reference to clause 6.10 Parameter Set | | RBS3-1683 |
| - Timeslot Number | | The timeslot(s) in which HS-HS-DSCH is to be configured | | RBS3-1684 |
| - CHOICE Burst Type | | Reference to clause 6.10 Parameter Set | | RBS3-1685 |
| - Midamble Allocation Mode | | Default | | RBS3-1686 |
| - Midamble configuration burst type | | 8 | | RBS3-1687 |
| 1 and 3 | | | | |
| Downlink information common for all radio links | A5, A6 | Not present | | RBS3-1688 |
| Downlink information common for all radio links | A1, A2, A3, A9, A11 | | | RBS3-1689 |
| - CHOICE DPCH info | | Downlink DPCH info common for all RL | Rel-6 | RBS3-1690 |
| - Timing indication | | Maintain | | RBS3-1691 |
| - CFN-targetSFN frame offset | | Not Present | R99 and Rel-4 only | RBS3-1692 |
| - Downlink DPCH power control information | | | | RBS3-1693 |
| - CHOICE mode | | TDD | | RBS3-1694 |
| - TPC Step Size | | 1 | | RBS3-1695 |
| - MAC-d HFN initial value | | Not Present | | RBS3-1696 |
| - CHOICE mode | | TDD | | RBS3-1697 |
| - CHOICE mode | | TDD | | RBS3-1698 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | RBS3-1699 |
| - Default DPCH Offset Value | | Not Present | | RBS3-1700 |
| - Mac-hs reset indicator | | Not Present | | RBS3-1701 |
| Downlink information common for all radio links | A4, A7, A8, A10 | | | RBS3-1702 |
| - CHOICE DPCH info | | Downlink DPCH info common for all RL | Rel-6 | RBS3-1703 |
| - Timing indication | | Initialise | | RBS3-1704 |
| - CFN-targetSFN frame offset | | Not Present | R99 and Rel-4 only | RBS3-1705 |
| - Downlink DPCH power control information | | | | RBS3-1706 |
| - CHOICE mode | | TDD | | RBS3-1707 |
| - TPC Step Size | | 1 | | RBS3-1708 |
| - MAC-d HFN initial value | | Not Present | | RBS3-1709 |
| - CHOICE mode | | TDD | | RBS3-1710 |
| - CHOICE mode | | TDD | | RBS3-1711 |
| - CHOICE TDD option | | 3.84 Mcps TDD | Rel-4 | RBS3-1712 |
| - Default DPCH Offset Value | | Not Present | | RBS3-1713 |
| - Mac-hs reset indicator | | Not Present | | RBS3-1714 |
| Downlink information for each radio link list | A1, A2, A3, A4, A7, A8, A9, A10, A11 | 1 | | RBS3-1715 |
| - Downlink information for each radio link | | | | RBS3-1716 |
| - Choice mode | | TDD | | RBS3-1717 |
| - Primary CCPCH info | | | | RBS3-1718 |
| - Choice mode | | TDD | | RBS3-1719 |
| - CHOICE TDD option | | 3.84 Mcps TDD | | RBS3-1720 |
| - CHOICE SyncCase | | Sync Case 2 | | RBS3-1721 |
| - Timeslot | | 0 | | RBS3-1722 |
| - Cell parameters ID | | 10 | | RBS3-1723 |
| - SCTD indicator | | FALSE | | RBS3-1724 |
| - CHOICE DPCH info | | Downlink DPCH info for each RL | Rel-6 | RBS3-1725 |
| - CHOICE mode | | TDD | | RBS3-1726 |
| - DL CCTrCH List | | 1 CCTrCh | | RBS3-1727 |
| - TFCS ID | | 1 | | RBS3-1728 |
| - Activation time | | Not Present | | RBS3-1729 |
| - Duration | | Not Present | | RBS3-1730 |
| - Common timeslot info | | | | RBS3-1731 |
| - 2 nd interleaving mode | | Reference to clause 6.10 Parameter Set | | RBS3-1732 |
| - TFCI coding | | Reference to clause 6.10 Parameter Set | | RBS3-1733 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBS3-1734 |
| - Repetition Period | | Reference to clause 6.10 Parameter Set | | RBS3-1735 |

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| <ul style="list-style-type: none"> - Repetition Length - Downlink DPCH timeslots and codes - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration | | Reference to clause 6.10 Parameter Set | | RBS3-1736 |
| | | RBS3-1737 | | |
| | | The number of a downlink timeslot that has unassigned codes. | | RBS3-1738 |
| | | TRUE | | RBS3-1739 |
| | | 3.84 Mcps | | RBS3-1740 |
| | | Reference to clause 6.10 Parameter Set | | RBS3-1741 |
| | | Default | | RBS3-1742 |
| | | Set Kcell to lowest possible value given the number of codes defined in clause 6.10 Parameter Set | | RBS3-1743 |
| | | 3.84 Mcps | | RBS3-1744 |
| | | | | RBS3-1745 |
| <ul style="list-style-type: none"> - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - First channelisation code - Last channelisation code - CHOICE more timeslots | | | | RBS3-1746 |
| | | | | RBS3-1747 |
| | | Consecutive codes | | RBS3-1748 |
| | | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6.10 Parameter Set. | | RBS3-1749 |
| | | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in clause 6.10 Parameter Set. | | RBS3-1750 |
| | | The presence of this IE depends upon whether the requirements of clause 6.10 Parameter Set t could be met by the codes that have been assigned in the first timeslot. | | RBS3-1751 |
| | | 1 | | RBS3-1752 |
| | | 1 | | RBS3-1753 |
| | | False | | RBS3-1754 |
| | | Not Present | | RBS3-1755 |
| <ul style="list-style-type: none"> - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared channel indicator - DL CCTrCH List to Remove - SCCPCH information for FACH - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | | Not Present | R99 and Rel-4 only | RBS3-1756 |
| | | Not Present | | RBS3-1757 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| <ul style="list-style-type: none"> - Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - CHOICE DPCH info - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | A5 | | | RBS3-1758 |
| | | | | RBS3-1759 |
| | | | | RBS3-1760 |
| | | | | RBS3-1761 |
| | | | | RBS3-1762 |
| | | TDD | | RBS3-1763 |
| | | TDD | | RBS3-1764 |
| | | 3.84 Mcps TDD | | RBS3-1765 |
| | | Sync Case 2 | | RBS3-1766 |
| | | 0 | | RBS3-1767 |
| <ul style="list-style-type: none"> - Timeslot - Cell parameters ID - SCTD indicator - CHOICE DPCH info - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information | | 10 | | RBS3-1768 |
| | | FALSE | | RBS3-1769 |
| | | Not present | | RBS3-1770 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not Present | | Rel-6 |
| | | Not present | | Rel-6 |
| | | Not present | | Rel-6 |
| <ul style="list-style-type: none"> - Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase | A6 | | | RBS3-1771 |
| | | | | RBS3-1772 |
| | | | | RBS3-1773 |
| | | | | RBS3-1774 |
| | | | | RBS3-1775 |
| | | TDD | | RBS3-1776 |
| | | TDD | | RBS3-1777 |
| | | 3.84 Mcps TDD | | RBS3-1778 |
| | | Sync Case 2 | | RBS3-1779 |
| | | Sync Case 2 | | RBS3-1780 |
| <ul style="list-style-type: none"> - Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase | A12, A13, A14, A15, A16 | | Rel-7 | RBS3-1781 |
| | | | | RBS3-1782 |
| | | | | RBS3-1783 |
| | | | | RBS3-1784 |
| | | | | RBS3-1785 |
| | | TDD | | RBS3-1786 |
| | | TDD | | RBS3-1787 |
| | | 3.84 Mcps TDD | | RBS3-1788 |
| | | Sync Case 2 | | RBS3-1789 |
| | | Sync Case 2 | | RBS3-1790 |

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| - Timeslot | | 0 | | RBS3-1783 |
| - Cell parameters ID | | 10 | | RBS3-1784 |
| - SCTD indicator | | FALSE | | RBS3-1785 |
| - CHOICE DPCH info | | Not present | | RBS3-1786 |
| - E-AGCH Info | | Present | | RBS3-1787 |
| - CHOICE mode | | TDD | | RBS3-1788 |
| - CHOICE TDD option | | 3.84Mcps | | RBS3-1789 |
| - Long Term Grant Indicator | | FALSE | | RBS3-1790 |
| - Length of TTRI field | | Reference to clause 6.10 Parameter Set | | RBS3-1791 |
| - E-AGCH set configuration | | Reference to clause 6.10 Parameter Set | | RBS3-1792 |
| - TS number | | Reference to clause 6.10 Parameter Set | | RBS3-1793 |
| - Channelisation code | | Reference to clause 6.10 Parameter Set | | RBS3-1794 |
| - CHOICE Burst Type | | Reference to clause 6.10 Parameter Set | | RBS3-1795 |
| - Midamble allocation | | Reference to clause 6.10 Parameter Set | | RBS3-1796 |
| - E-AGCH BLER Target | | -2 | | RBS3-1797 |
| - CHOICE mode | | TDD | | RBS3-1798 |
| - E-HICH info | | Present | | RBS3-1799 |
| - CHOICE mode | | TDD | | RBS3-1800 |
| - CHOICE TDD option | | 3.84Mcps | | RBS3-1801 |
| - NE-HICH | | 4 | | RBS3-1802 |
| - TS Number | | Reference to clause 6.10 Parameter Set | | RBS3-1803 |
| - Channelisation code | | Reference to clause 6.10 Parameter Set | | RBS3-1804 |
| - Burst Type | | Reference to clause 6.10 Parameter Set | | RBS3-1805 |
| - Midamble allocation mode | | Reference to clause 6.10 Parameter Set | | RBS3-1806 |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16 | Not Present | Rel-5 Rel-7 | RBS3-1808 RBS3-1809 |

| Condition | Explanation | Version |
|-----------|--|---------|
| A1 | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS" | |
| A2 | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS" | |
| A3 | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS" | |
| A8 | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS" | Rel-5 |
| A11 | This IE is needed for " Packet RAB Setup after Speech RAB Setup in CELL_DCH" | |
| A12 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH" | Rel-7 |
| A13 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-7 |
| A14 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A15 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-7 |
| A16 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---------------------|--------------------------------|--------------|---------|----------|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8 | | | RBS1-001 |

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|--|--|---------|----------|
| | , A9, A10 | | Rel-5 | RBS1-002 |
| | , A11, A12, A13, A14, A15, A16, 16a, A17, A18, A19, A20, A21, A22, A23, A24 | | Rel-7 | RBS1-003 |
| | | | Rel-8 | RBS1-004 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS1-005 |
| Integrity check info | | | | RBS1-006 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS1-007 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS1-008 |
| Integrity protection mode info | | Not Present | | RBS1-009 |
| Ciphering mode info | | Not Present | | RBS1-010 |
| Activation time | A1, A2, A3, A7, A8 | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBS1-011 |
| | , A9 | | Rel-5 | RBS1-012 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, A19, A20, A21, A22, A23, A24 | | Rel-7 | RBS1-013 |
| | | | Rel-8 | RBS1-014 |
| Activation time | A4, A5, A6 | Now | | RBS1-015 |
| | , A10, A18 | | Rel-5 | RBS1-016 |
| | | | Rel-8 | RBS1-017 |
| New U-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-018 |
| | , A9, A10 | | Rel-5 | RBS1-019 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24 | | Rel-7 | RBS1-020 |
| | | | Rel-8 | RBS1-021 |
| New C-RNTI | A1, A2, A3, A4, A7, A8 | Not Present | | RBS1-022 |
| | , A9, A10 | | Rel-5 | RBS1-023 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A21, A22, A23, A24 | | Rel-7 | RBS1-024 |
| | | | Rel-8 | RBS1-025 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | RBS1-026 |
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-027 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | Rel-5 | RBS1-028 |
| | , A24 | | Rel-8 | RBS1-029 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|---------|-----------|
| New H-RNTI | A9, A10 | '1010 1010 1010 1010' | Rel-5 | RBS1-030 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, | | Rel-7 | RBS1-031 |
| | A18, A19, A20, A21, A22, A23 | | Rel-8 | RBS1-032 |
| CHOICE <i>mode</i> | | TDD | Rel-7 | RBS1-033 |
| - New E-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A16, A17 | Not Present | Rel-7 | RBS1-034 |
| | , A24 | | Rel-8 | RBS1-035 |
| - New E-RNTI | , A11, A12, A13, A14, A15 | '1010 1010 1010 1010' | Rel-7 | RBS1-036 |
| | , A18, A19, A20, A21, A22, A23 | | Rel-8 | RBS1-037 |
| RRC State indicator | A1, A2, A3, A4, A7, A8 | CELL_DCH | | RBS1-038 |
| | , A9, A10 | | Rel-5 | RBS1-039 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17 | | Rel-7 | RBS1-040 |
| | A19, A20, A22, A23 | | Rel-8 | RBS1-041 |
| RRC State indicator | A5, A6 | CELL_FACH | | RBS1-042 |
| | A18, A24 | | Rel-8 | RBS1-043 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-044 |
| | , A9, A10 | | Rel-5 | RBS1-045 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17 | | Rel-7 | RBS1-046 |
| | A18, A19, A20, A21, A22, A23, A24 | | Rel-8 | RBS1-047 |
| CN information info | | Not Present | | RBS1-048 |
| URA identity | | Not Present | | RBS1-049 |
| RNC support for change of UE capability | | Not Present | Rel-7 | RBS1-049a |
| - Signalling RB information to setup list | | Not Present | | RBS1-050 |
| - RAB information for setup list | A1, A7 | | | RBS1-051 |
| - RAB info | | | | RBS1-052 |
| - RAB identity | | | | RBS1-053 |
| - CHOICE RAB identity type | | RAB identity (GSM-MAP) | | RBS1-054 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-055 |
| - CN domain identity | | CS domain | | RBS1-056 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-057 |
| - Re-establishment timer | | useT314 | | RBS1-058 |
| - RB information to setup list | | | | RBS1-059 |
| - RB information to setup | | | | RBS1-060 |
| - RB identity | | 10 | | RBS1-061 |
| - PDCP info | | Not Present | | RBS1-062 |
| - CHOICE RLC info type | | RLC info | | RBS1-063 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - CHOICE Uplink RLC mode | | TM RLC | | RBS1-064 |
| - Transmission RLC discard | | Not Present | | RBS1-065 |
| - Segmentation indication | | FALSE | | RBS1-066 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS1-067 |
| - Segmentation indication | | FALSE | | RBS1-068 |
| - RB mapping info | | | | RBS1-069 |
| - Information for each multiplexing option | | | | RBS1-070 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-071 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-072 |
| - Uplink transport channel type | | DCH | | RBS1-073 |
| - UL Transport channel identity | | 1 | | RBS1-074 |
| - Logical channel identity | | Not Present | | RBS1-075 |
| - CHOICE <i>RLC size list</i> | | Configured | | RBS1-076 |
| - MAC logical channel priority | | 8 | | RBS1-077 |
| - Downlink RLC logical channel info | | | | RBS1-078 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-079 |
| - Downlink transport channel type | | DCH | | RBS1-080 |
| - DL DCH Transport channel identity | | 6 | | RBS1-081 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-082 |
| - Logical channel identity | | Not Present | | RBS1-083 |
| RAB information to setup list | A2, A8 | | | RBS1-084 |
| - RAB info | | | | RBS1-085 |
| - RAB identity | | | | RBS1-086 |
| - CHOICE RAB identity type | | RAB identity (GSM-MAP) | | RBS1-087 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-088 |
| - CN domain identity | | CS domain | | RBS1-089 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-090 |
| - Re-establishment timer | | useT314 | | RBS1-091 |
| - RB information to setup list | | | | RBS1-092 |
| - RB information to setup | | | | RBS1-093 |
| - RB identity | | 10 | | RBS1-094 |
| - PDCP info | | Not Present | | RBS1-095 |
| - CHOICE RLC info type | | RLC info | | RBS1-096 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS1-097 |
| - Transmission RLC discard | | Not Present | | RBS1-098 |
| - Segmentation indication | | FALSE | | RBS1-099 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS1-100 |
| - Segmentation indication | | FALSE | | RBS1-101 |
| - RB mapping info | | | | RBS1-102 |
| - Information for each multiplexing option | | | | RBS1-103 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-104 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-105 |
| - Uplink transport channel type | | DCH | | RBS1-106 |
| - UL Transport channel identity | | 1 | | RBS1-107 |
| - Logical channel identity | | Not Present | | RBS1-108 |
| - CHOICE <i>RLC size list</i> | | Configured | | RBS1-109 |
| - MAC logical channel priority | | 6 | | RBS1-110 |
| - Downlink RLC logical channel info | | | | RBS1-111 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-112 |
| - Downlink transport channel type | | DCH | | RBS1-113 |
| - DL DCH Transport channel identity | | 6 | | RBS1-114 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-115 |
| - Logical channel identity | | Not Present | | RBS1-116 |
| - RB identity | | 11 | | RBS1-117 |
| - PDCP info | | Not Present | | RBS1-118 |
| - CHOICE RLC info type | | RLC info | | RBS1-119 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS1-120 |
| - Transmission RLC discard | | Not Present | | RBS1-121 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|--|---------|----------|
| - Segmentation indication | | FALSE | | RBS1-122 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS1-123 |
| - Segmentation indication | | FALSE | | RBS1-124 |
| - RB mapping info | | | | RBS1-125 |
| - Information for each multiplexing option | | | | RBS1-126 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-127 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-128 |
| - Uplink transport channel type | | DCH | | RBS1-129 |
| - UL Transport channel identity | | 2 | | RBS1-130 |
| - Logical channel identity | | Not Present | | RBS1-131 |
| - CHOICE RLC size list | | Configured | | RBS1-132 |
| - MAC logical channel priority | | 6 | | RBS1-133 |
| - Downlink RLC logical channel info | | | | RBS1-134 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-135 |
| - Downlink transport channel type | | DCH | | RBS1-136 |
| - DL DCH Transport channel identity | | 7 | | RBS1-137 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-138 |
| - Logical channel identity | | Not Present | | RBS1-139 |
| - RB identity | | 12 | | RBS1-140 |
| - PDCP info | | Not Present | | RBS1-141 |
| - CHOICE RLC info type | | RLC info | | RBS1-142 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS1-143 |
| - Transmission RLC discard | | Not Present | | RBS1-144 |
| - Segmentation indication | | FALSE | | RBS1-145 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS1-146 |
| - Segmentation indication | | FALSE | | RBS1-147 |
| - RB mapping info | | | | RBS1-148 |
| - Information for each multiplexing option | | | | RBS1-149 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-150 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-151 |
| - Uplink transport channel type | | DCH | | RBS1-152 |
| - UL Transport channel identity | | 3 | | RBS1-153 |
| - Logical channel identity | | Not Present | | RBS1-154 |
| - CHOICE RLC size list | | Configured | | RBS1-155 |
| - MAC logical channel priority | | 7 | | RBS1-156 |
| - Downlink RLC logical channel info | | | | RBS1-157 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-158 |
| - Downlink transport channel type | | DCH | | RBS1-159 |
| - DL DCH Transport channel identity | | 8 | | RBS1-160 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-161 |
| - Logical channel identity | | Not Present | | RBS1-162 |
| RAB information for setup list | A3, A4, A5, A6 | | | RBS1-163 |
| - RAB info | | | | RBS1-164 |
| - RAB identity | | | | RBS1-165 |
| - CHOICE RAB identity type | | RAB identity (GSM-MAP) | | RBS1-166 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-167 |
| - CN domain identity | | PS domain | | RBS1-168 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-169 |
| - Re-establishment timer | | useT315 | | RBS1-170 |
| - RB information to setup list | | | | RBS1-171 |
| - RB information to setup | | | | RBS1-172 |
| - RB identity | | 20 | | RBS1-173 |
| - PDCP info | | | | RBS1-174 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-175 |
| - Max PDCP SN window size | | Not present | | RBS1-176 |
| - PDCP PDU header | | Not present | | RBS1-177 |
| - Header compression information | | Not present | | RBS1-178 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|----------|
| - CHOICE RLC info type | | RLC info | | RBS1-179 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-180 |
| - Transmission RLC discard | | | | RBS1-181 |
| - CHOICE SDU Discard Mode | | Max DAT retransmissions | | RBS1-182 |
| - MAX_DAT | | 4 | | RBS1-183 |
| - Timer_MRW | | 100 | | RBS1-184 |
| - MaxMRW | | 4 | | RBS1-185 |
| - Transmission window size | | 128 | | RBS1-186 |
| - Timer_RST | | 500 | | RBS1-187 |
| - Max_RST | | 4 | | RBS1-188 |
| - Polling info | | | | RBS1-189 |
| - Timer_poll_prohibit | | 200 | | RBS1-190 |
| - Timer_poll | | 200 | | RBS1-191 |
| - Poll_PDU | | Not Present | | RBS1-192 |
| - Poll_SDU | | 1 | | RBS1-193 |
| - Last transmission PDU poll | | TRUE | | RBS1-194 |
| - Last retransmission PDU poll | | TRUE | | RBS1-195 |
| - Poll_Windows | | 99 | | RBS1-196 |
| - Timer_poll_periodic | | Not Present | | RBS1-197 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-198 |
| - In-sequence delivery | | TRUE | | RBS1-199 |
| - Receiving window size | | 128 | | RBS1-200 |
| - Downlink RLC status info | | | | RBS1-201 |
| - Timer_status_prohibit | | 200 | | RBS1-202 |
| - Timer_EPC | | 200 | | RBS1-203 |
| - Missing PDU indicator | | TRUE | | RBS1-204 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-205 |
| - RB mapping info | | | | RBS1-206 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RBS1-207 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-208 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-209 |
| - Uplink transport channel type | | DCH | | RBS1-210 |
| - UL Transport channel identity | | 1 | | RBS1-211 |
| - Logical channel identity | | Not Present | | RBS1-212 |
| - CHOICE RLC size list | | Configured | | RBS1-213 |
| - MAC logical channel priority | | 8 | | RBS1-214 |
| - Downlink RLC logical channel info | | | | RBS1-215 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-216 |
| - Downlink transport channel type | | DCH | | RBS1-217 |
| - DL DCH Transport channel identity | | 6 | | RBS1-218 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-219 |
| - Logical channel identity | | Not Present | | RBS1-220 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-221 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-222 |
| - Uplink transport channel type | | RACH | | RBS1-223 |
| - UL Transport channel identity | | Not Present | | RBS1-224 |
| - Logical channel identity | | 7 | | RBS1-225 |
| - CHOICE RLC size list | | Explicit list | | RBS1-226 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS1-227 |
| - MAC logical channel priority | | 8 | | RBS1-228 |
| - Downlink RLC logical channel info | | | | RBS1-229 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-230 |
| - Downlink transport channel type | | FACH | | RBS1-231 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-232 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-233 |
| - Logical channel identity | | 8 | | RBS1-234 |
| - RAB information for setup | A9 | | Rel-5 | RBS1-235 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-236 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string | | RBS1-237 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| | | contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS1-238 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-239 |
| - Re-establishment timer | | useT315 | | RBS1-240 |
| - RB information to setup | | | | RBS1-241 |
| - RB identity | | 25 | | RBS1-242 |
| - PDCP info | | | | RBS1-243 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-244 |
| - Max PDCP SN window size | | Not present | | RBS1-245 |
| - PDCP PDU header | | Absent | | RBS1-246 |
| - Header compression information | | Not present | | RBS1-247 |
| - CHOICE RLC info type | | RLC info | | RBS1-248 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-249 |
| - Transmission RLC discard | | | | RBS1-250 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-251 |
| - MAX_DAT | | 15 | | RBS1-252 |
| - Transmission window size | | 128 | | RBS1-253 |
| - Timer_RST | | 500 | | RBS1-254 |
| - Max_RST | | 4 | | RBS1-255 |
| - Polling info | | | | RBS1-256 |
| - Timer_poll_prohibit | | 100 | | RBS1-257 |
| - Timer_poll | | 100 | | RBS1-258 |
| - Poll_PDU | | Not Present | | RBS1-259 |
| - Poll_SDU | | 1 | | RBS1-260 |
| - Last transmission PDU poll | | TRUE | | RBS1-261 |
| - Last retransmission PDU poll | | TRUE | | RBS1-262 |
| - Poll_Windows | | 99 | | RBS1-263 |
| - Timer_poll_periodic | | Not Present | | RBS1-264 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-265 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-266 |
| - In-sequence delivery | | TRUE | | RBS1-267 |
| - Receiving window size | | 768 | | RBS1-268 |
| - Downlink RLC status info | | | | RBS1-269 |
| - Timer_status_prohibit | | 100 | | RBS1-270 |
| - Timer_EPC | | Not Present | | RBS1-271 |
| - Missing PDU indicator | | TRUE | | RBS1-272 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-273 |
| - One sided RLC re-establishment | | FALSE | | RBS1-274 |
| - RB mapping info | | | | RBS1-275 |
| - Information for each multiplexing option | | 3 RBMuxOptions | | RBS1-276 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-277 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-278 |
| - Uplink transport channel type | | DCH | | RBS1-279 |
| - UL Transport channel identity | | 1 | | RBS1-280 |
| - Logical channel identity | | Not Present | | RBS1-281 |
| - CHOICE RLC size list | | Configured | | RBS1-282 |
| - MAC logical channel priority | | 8 | | RBS1-283 |
| - Downlink RLC logical channel info | | | | RBS1-284 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-285 |
| - Downlink transport channel type | | DCH | | RBS1-286 |
| - DL DCH Transport channel identity | | 6 | | RBS1-287 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-288 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RBS1-289 |
| - Logical channel identity | | Not Present | | RBS1-290 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-291 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-292 |
| - Uplink transport channel type | | DCH | | RBS1-293 |
| - UL Transport channel identity | | 1 | | RBS1-294 |
| - Logical channel identity | | Not Present | | RBS1-295 |
| - CHOICE RLC size list | | Configured | | RBS1-296 |
| - MAC logical channel priority | | 8 | | RBS1-297 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - Downlink RLC logical channel info | | | | RBS1-298 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-299 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-300 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-301 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-302 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS1-303 |
| - Logical channel identity | | Not Present | | RBS1-304 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-305 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-306 |
| - Uplink transport channel type | | RACH | | RBS1-307 |
| - UL Transport channel identity | | Not Present | | RBS1-308 |
| - Logical channel identity | | 7 | | RBS1-309 |
| - CHOICE RLC size list | | Explicit list | | RBS1-310 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS1-311 |
| - MAC logical channel priority | | 8 | | RBS1-312 |
| - Downlink RLC logical channel info | | | | RBS1-313 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-314 |
| - Downlink transport channel type | | FACH | | RBS1-315 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-316 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-317 |
| - Logical channel identity | | 7 | | RBS1-318 |
| - RAB information for setup | A10 | | Rel-5 | RBS1-319 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-320 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-321 |
| - CN domain identity | | PS domain | | RBS1-322 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-323 |
| - Re-establishment timer | | useT315 | | RBS1-324 |
| - RB information to setup | | | | RBS1-325 |
| - RB identity | | 25 | | RBS1-326 |
| - PDCP info | | | | RBS1-327 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-328 |
| - Max PDCP SN window size | | Not present | | RBS1-329 |
| - PDCP PDU header | | Absent | | RBS1-330 |
| - Header compression information | | Not present | | RBS1-331 |
| - CHOICE RLC info type | | RLC info | | RBS1-332 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-333 |
| - Transmission RLC discard | | | | RBS1-334 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-335 |
| - MAX_DAT | | 15 | | RBS1-336 |
| - Transmission window size | | 128 | | RBS1-337 |
| - Timer_RST | | 500 | | RBS1-338 |
| - Max_RST | | 4 | | RBS1-339 |
| - Polling info | | | | RBS1-340 |
| - Timer_poll_prohibit | | 100 | | RBS1-341 |
| - Timer_poll | | 100 | | RBS1-342 |
| - Poll_PDU | | Not Present | | RBS1-343 |
| - Poll_SDU | | 1 | | RBS1-344 |
| - Last transmission PDU poll | | TRUE | | RBS1-345 |
| - Last retransmission PDU poll | | TRUE | | RBS1-346 |
| - Poll_Windows | | 99 | | RBS1-347 |
| - Timer_poll_periodic | | Not Present | | RBS1-348 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-349 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-350 |
| - In-sequence delivery | | TRUE | | RBS1-351 |
| - Receiving window size | | 768 | | RBS1-352 |
| - Downlink RLC status info | | | | RBS1-353 |
| - Timer_status_prohibit | | 100 | | RBS1-354 |
| - Timer_EPC | | Not Present | | RBS1-355 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - Missing PDU indicator | | TRUE | | RBS1-356 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-357 |
| - One sided RLC re-establishment | | FALSE | | RBS1-358 |
| - RB mapping info | | | | RBS1-359 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-360 |
| - RLC logical channel mapping indicator | | Not present | | RBS1-361 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-362 |
| - Uplink transport channel type | | DCH | | RBS1-363 |
| - UL Transport channel identity | | 1 | | RBS1-364 |
| - Logical channel identity | | Not Present | | RBS1-365 |
| - CHOICE RLC size list | | Configured | | RBS1-366 |
| - MAC logical channel priority | | 8 | | RBS1-367 |
| - Downlink RLC logical channel info | | | | RBS1-368 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-369 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-370 |
| - DL DCH Transport channel identity | | Not present | | RBS1-371 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-372 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS1-373 |
| - Logical channel identity | | Not Present | | RBS1-374 |
| - RAB information for setup | A11 | | Rel-7 | RBS1-375 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-376 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-377 |
| - CN domain identity | | PS domain | | RBS1-378 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-379 |
| - Re-establishment timer | | useT315 | | RBS1-380 |
| - RB information to setup | | | | RBS1-381 |
| - RB identity | | 25 | | RBS1-382 |
| - PDCP info | | | | RBS1-383 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-384 |
| - Max PDCP SN window size | | Not present | | RBS1-385 |
| - PDCP PDU header | | Absent | | RBS1-386 |
| - Header compression information | | Not present | | RBS1-387 |
| - CHOICE RLC info type | | RLC info | | RBS1-388 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-389 |
| - Transmission RLC discard | | | | RBS1-390 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-391 |
| - MAX_DAT | | 15 | | RBS1-392 |
| - Transmission window size | | 256 | | RBS1-393 |
| - Timer_RST | | 500 | | RBS1-394 |
| - Max_RST | | 4 | | RBS1-395 |
| - Polling info | | | | RBS1-396 |
| - Timer_poll_prohibit | | 100 | | RBS1-397 |
| - Timer_poll | | 100 | | RBS1-398 |
| - Poll_PDU | | Not Present | | RBS1-399 |
| - Poll_SDU | | 1 | | RBS1-400 |
| - Last transmission PDU poll | | TRUE | | RBS1-401 |
| - Last retransmission PDU poll | | TRUE | | RBS1-402 |
| - Poll_Windows | | 99 | | RBS1-403 |
| - Timer_poll_periodic | | Not Present | | RBS1-404 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-405 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-406 |
| - In-sequence delivery | | TRUE | | RBS1-407 |
| - Receiving window size | | 768 | | RBS1-408 |
| - Downlink RLC status info | | | | RBS1-409 |
| - Timer_status_prohibit | | 100 | | RBS1-410 |
| - Timer_EPC | | Not Present | | RBS1-411 |
| - Missing PDU indicator | | TRUE | | RBS1-412 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-413 |
| - One sided RLC re-establishment | | FALSE | | RBS1-414 |
| - RB mapping info | | | | RBS1-415 |
| - Information for each multiplexing option | | 3 RBMuxOptions | | RBS1-416 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------------------|--|----------|----------|
| <ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity | MAC-I-FIXED | Not Present | Rel-8 | RBS1-417 |
| | | 1 | | RBS1-418 |
| | | DCH | | RBS1-419 |
| | | 1 | | RBS1-420 |
| | | Not Present | | RBS1-421 |
| | | Configured | | RBS1-422 |
| | | 8 | | RBS1-423 |
| | | 1 | | RBS1-424 |
| | | 1 | | RBS1-425 |
| | | DCH | | RBS1-426 |
| | | 6 | | RBS1-427 |
| | | Not Present | | RBS1-428 |
| | | Not Present | | RBS1-429 |
| | | Not Present | | RBS1-430 |
| | | Not Present | | RBS1-431 |
| | | 1 | | RBS1-432 |
| | | E-DCH | | RBS1-433 |
| | | 7 | | RBS1-434 |
| | | 2 | | RBS1-435 |
| | | Fixed size | | RBS1-436 |
| | | MAC-I-FLEX | | 5 |
| | 1 RLC PDU size | | RBS1-438 | |
| | 336 bits | | RBS1-439 | |
| | Flexible size | | RBS1-440 | |
| | Not present | | RBS1-441 | |
| | See clause 6.11 | | RBS1-442 | |
| | See clause 6.11 | | RBS1-443 | |
| | TRUE | | RBS1-444 | |
| | 8 | | RBS1-445 | |
| | 1 | | RBS1-446 | |
| | 1 | | RBS1-447 | |
| | HS-DSCH | | RBS1-448 | |
| | Not Present | | RBS1-449 | |
| | Not Present | | RBS1-450 | |
| | 0 | | RBS1-451 | |
| | Not Present | | RBS1-452 | |
| | Not Present | | RBS1-453 | |
| | 1 | | RBS1-454 | |
| | RACH | | RBS1-455 | |
| | Not Present | | RBS1-456 | |
| | 7 | | RBS1-457 | |
| | Explicit list | RBS1-458 | | |
| Reference to clause 6 Parameter Set | RBS1-459 | | | |
| 8 | RBS1-460 | | | |
| 1 | RBS1-461 | | | |
| 1 | RBS1-462 | | | |
| FACH | RBS1-463 | | | |
| Not Present | RBS1-464 | | | |
| Not Present | RBS1-465 | | | |
| - RAB information for setup | A12, A13, A14, A15 A19, A20 | | Rel-7 | RBS1-466 |
| - RAB info | | (high-speed AM DTCH for PS domain) | Rel-8 | RBS1-467 |
| - RAB identity | | 0000 0101B | | RBS1-468 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-469 |
| - CN domain identity | | PS domain | | RBS1-470 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-471 |
| - Re-establishment timer | | useT315 | | RBS1-472 |
| - RB information to setup | | | | RBS1-473 |
| - RB identity | | 25 | | RBS1-474 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|--|---------|----------|
| - PDCP info | | | | RBS1-475 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-476 |
| - Max PDCP SN window size | | Not present | | RBS1-477 |
| - PDCP PDU header | | Absent | | RBS1-478 |
| - Header compression information | | Not present | | RBS1-479 |
| - CHOICE RLC info type | | RLC info | | RBS1-480 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-481 |
| - Transmission RLC discard | | | | RBS1-482 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-483 |
| - MAX_DAT | | 15 | | RBS1-484 |
| - Transmission window size | | 256 | | RBS1-485 |
| - Timer_RST | | 500 | | RBS1-486 |
| - Max_RST | | 4 | | RBS1-487 |
| - Polling info | | | | RBS1-488 |
| - Timer_poll_prohibit | | 100 | | RBS1-489 |
| - Timer_poll | | 100 | | RBS1-490 |
| - Poll_PDU | | Not Present | | RBS1-491 |
| - Poll_SDU | | 1 | | RBS1-492 |
| - Last transmission PDU poll | | TRUE | | RBS1-493 |
| - Last retransmission PDU poll | | TRUE | | RBS1-494 |
| - Poll_Windows | | 99 | | RBS1-495 |
| - Timer_poll_periodic | | Not Present | | RBS1-496 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-497 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-498 |
| - In-sequence delivery | | TRUE | | RBS1-499 |
| - Receiving window size | | 768 | | RBS1-500 |
| - Downlink RLC status info | | | | RBS1-501 |
| - Timer_status_prohibit | | 100 | | RBS1-502 |
| - Timer_EPC | | Not Present | | RBS1-503 |
| - Missing PDU indicator | | TRUE | | RBS1-504 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-505 |
| - One sided RLC re-establishment | | FALSE | | RBS1-506 |
| - RB mapping info | | | | RBS1-507 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-508 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-509 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-510 |
| - Uplink transport channel type | | E-DCH | | RBS1-511 |
| - Logical channel identity | | 7 | | RBS1-512 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-513 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS1-514 |
| - DDI | | 5 | | RBS1-515 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-516 |
| - RLC PDU size | | 336 bits | | RBS1-517 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS1-518 |
| - Length indicator size | | Not present | | RBS1-519 |
| - Minimum UL RLC PDU size | | See clause 6.11 | | RBS1-520 |
| - Largest UL RLC PDU size | | See clause 6.11 | | RBS1-521 |
| - Include in scheduling info | | TRUE | | RBS1-522 |
| - MAC logical channel priority | | 8 | | RBS1-523 |
| - Downlink RLC logical channel info | | | | RBS1-524 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-525 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-526 |
| - DL DCH Transport channel identity | | Not present | | RBS1-527 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-528 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS1-529 |
| - Logical channel identity | | Not Present | | RBS1-530 |
| - RAB information for setup | A14 | | Rel-7 | RBS1-531 |
| - RAB info | | (second high-speed AM DTCH for PS domain) | | RBS1-532 |
| - RAB identity | | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-533 |
| - CN domain identity | | PS domain | | RBS1-534 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|--|---------|----------|
| - NAS Synchronization Indicator | | Not Present | | RBS1-535 |
| - Re-establishment timer | | useT315 | | RBS1-536 |
| - RB information to setup | | | | RBS1-537 |
| - RB identity | | 17 | | RBS1-538 |
| - PDCP info | | | | RBS1-539 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-540 |
| - Max PDCP SN window size | | Not present | | RBS1-541 |
| - PDCP PDU header | | Absent | | RBS1-542 |
| - Header compression information | | Not present | | RBS1-543 |
| - CHOICE RLC info type | | RLC info | | RBS1-544 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-545 |
| - Transmission RLC discard | | | | RBS1-546 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-547 |
| - MAX_DAT | | 15 | | RBS1-548 |
| - Transmission window size | | 256 | | RBS1-549 |
| - Timer_RST | | 500 | | RBS1-550 |
| - Max_RST | | 4 | | RBS1-551 |
| - Polling info | | | | RBS1-552 |
| - Timer_poll_prohibit | | 100 | | RBS1-553 |
| - Timer_poll | | 100 | | RBS1-554 |
| - Poll_PDU | | Not Present | | RBS1-555 |
| - Poll_SDU | | 1 | | RBS1-556 |
| - Last transmission PDU poll | | TRUE | | RBS1-557 |
| - Last retransmission PDU poll | | TRUE | | RBS1-558 |
| - Poll_Windows | | 99 | | RBS1-559 |
| - Timer_poll_periodic | | Not Present | | RBS1-560 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-561 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-562 |
| - In-sequence delivery | | TRUE | | RBS1-563 |
| - Receiving window size | | 768 | | RBS1-564 |
| - Downlink RLC status info | | | | RBS1-565 |
| - Timer_status_prohibit | | 100 | | RBS1-566 |
| - Timer_EPC | | Not Present | | RBS1-567 |
| - Missing PDU indicator | | TRUE | | RBS1-568 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-569 |
| - One sided RLC re-establishment | | FALSE | | RBS1-570 |
| - RB mapping info | | | | RBS1-571 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-572 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-573 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-574 |
| - Uplink transport channel type | | E-DCH | | RBS1-575 |
| - Logical channel identity | | 8 | | RBS1-576 |
| - E-DCH MAC-d flow identity | | 3 | | RBS1-577 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS1-578 |
| - DDI | | 6 | | RBS1-579 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-580 |
| - RLC PDU size | | 336 bits | | RBS1-581 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS1-582 |
| - Length indicator size | | Not present | | RBS1-583 |
| - Minimum UL RLC PDU size | | See clause 6.11 | | RBS1-584 |
| - Largest UL RLC PDU size | | See clause 6.11 | | RBS1-585 |
| - Include in scheduling info | | TRUE | | RBS1-586 |
| - MAC logical channel priority | | 8 | | RBS1-587 |
| - Downlink RLC logical channel info | | | | RBS1-588 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-589 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-590 |
| - DL DCH Transport channel identity | | Not present | | RBS1-591 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-592 |
| - DL HS-DSCH MAC-d flow identity | | 2 | | RBS1-593 |
| - Logical channel identity | | Not Present | | RBS1-594 |
| - RAB information for setup | A15 | | Rel-7 | RBS1-595 |
| - RAB info | | (Conversational UM DTCH for PS domain) | | RBS1-596 |
| - RAB identity | | 0000 0110B | | RBS1-597 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------|--|---------|----------|
| <ul style="list-style-type: none"> - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - One sided RLC re-establishment - Alternative E-bit interpretation - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size | MAC-I-FIXED | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | Rel-8 | RBS1-598 |
| | | PS domain | | RBS1-599 |
| | | Not Present | | RBS1-600 |
| | | useT314 | | RBS1-601 |
| | | 27 | | RBS1-602 |
| | | | | RBS1-603 |
| | | FALSE | | RBS1-604 |
| | | Not present | | RBS1-605 |
| | | Absent | | RBS1-606 |
| | | Not present | | RBS1-607 |
| | | RLC info | | RBS1-608 |
| | | UM RLC | | RBS1-609 |
| | | Not present | | RBS1-610 |
| | | UM RLC | | RBS1-611 |
| | | 7 | | RBS1-612 |
| | | 32 | | RBS1-613 |
| | | FALSE | | RBS1-614 |
| | | Not present | | RBS1-615 |
| | | | | RBS1-616 |
| | | 1 RBmuxOption | | RBS1-617 |
| | | Not Present | | RBS1-618 |
| | | 1 | | RBS1-619 |
| | | E-DCH | | RBS1-620 |
| | | 9 | | RBS1-621 |
| | | 4 | | RBS1-622 |
| | | Fixed size | | RBS1-623 |
| | | | | RBS1-624 |
| | | 7 | | RBS1-625 |
| | | 12 RLC PDU sizes | | RBS1-626 |
| | | 96 bits | | RBS1-627 |
| | | 112 bits | | RBS1-628 |
| | | 144 bits | | RBS1-629 |
| 160 bits | RBS1-630 | | | |
| 176 bits | RBS1-631 | | | |
| 192 bits | RBS1-632 | | | |
| 208 bits | RBS1-633 | | | |
| 224 bits | RBS1-634 | | | |
| 288 bits | RBS1-635 | | | |
| 296 bits | RBS1-636 | | | |
| 312 bits | RBS1-637 | | | |
| 336 bits | RBS1-638 | | | |
| Flexible size | RBS1-639 | | | |
| | RBS1-640 | | | |
| Not present | RBS1-641 | | | |
| See clause 6.11 | RBS1-642 | | | |
| See clause 6.11 | RBS1-643 | | | |
| TRUE | RBS1-644 | | | |
| 8 | RBS1-645 | | | |
| 1 | RBS1-646 | | | |
| HS-DSCH | RBS1-647 | | | |
| Not present | RBS1-648 | | | |
| Not present | RBS1-649 | | | |
| 3 | RBS1-650 | | | |
| Not Present | | | | |
| - RAB information for setup | A16, | | Rel-7 | RBS1-651 |
| | A21 | | Rel-8 | RBS1-652 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-653 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-654 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|----------|
| - CN domain identity | | PS domain | | RBS1-655 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-656 |
| - Re-establishment timer | | useT315 | | RBS1-657 |
| - RB information to setup | | | | RBS1-658 |
| - RB identity | | 25 | | RBS1-659 |
| - PDCP info | | | | RBS1-660 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-661 |
| - Max PDCP SN window size | | Not present | | RBS1-662 |
| - PDCP PDU header | | Absent | | RBS1-663 |
| - Header compression information | | Not present | | RBS1-664 |
| - CHOICE RLC info type | | RLC info | | RBS1-665 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-666 |
| - Transmission RLC discard | | | | RBS1-667 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-668 |
| - MAX_DAT | | 15 | | RBS1-669 |
| - Transmission window size | | 128 | | RBS1-670 |
| - Timer_RST | | 500 | | RBS1-671 |
| - Max_RST | | 4 | | RBS1-672 |
| - Polling info | | | | RBS1-673 |
| - Timer_poll_prohibit | | 100 | | RBS1-674 |
| - Timer_poll | | 100 | | RBS1-675 |
| - Poll_PDU | | Not Present | | RBS1-676 |
| - Poll_SDU | | 1 | | RBS1-677 |
| - Last transmission PDU poll | | TRUE | | RBS1-678 |
| - Last retransmission PDU poll | | TRUE | | RBS1-679 |
| - Poll_Windows | | 99 | | RBS1-680 |
| - Timer_poll_periodic | | Not Present | | RBS1-681 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-682 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-683 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS1-684 |
| - In-sequence delivery | | TRUE | | RBS1-685 |
| - Receiving window size | | 768 | | RBS1-686 |
| - Downlink RLC status info | | | | RBS1-687 |
| - Timer_status_prohibit | | 100 | | RBS1-688 |
| - Timer_EPC | | Not Present | | RBS1-689 |
| - Missing PDU indicator | | TRUE | | RBS1-690 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-691 |
| - One sided RLC re-establishment | | FALSE | | RBS1-692 |
| - Alternative E-bit interpretation | | Not present | | RBS1-693 |
| - Use special value of HE field | | TRUE | | RBS1-694 |
| - RB mapping info | | | | RBS1-695 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-696 |
| - RLC logical channel mapping indicator | | Not present | | RBS1-697 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-698 |
| - Uplink transport channel type | | DCH | | RBS1-699 |
| - UL Transport channel identity | | 1 | | RBS1-700 |
| - Logical channel identity | | Not Present | | RBS1-701 |
| - CHOICE RLC size list | | Configured | | RBS1-702 |
| - MAC logical channel priority | | 8 | | RBS1-703 |
| - Downlink RLC logical channel info | | | | RBS1-704 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-705 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-706 |
| - DL DCH Transport channel identity | | Not present | | RBS1-707 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-708 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS1-709 |
| - DL HS-DSCH MAC-ehs Queue Id | | 0 | | RBS1-710 |
| - Logical channel identity | | 7 | | RBS1-711 |
| - RAB information for setup | A16a | | Rel-7 | RBS1-712 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-713 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string | | RBS1-714 |

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| | | contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS1-715 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-716 |
| - Re-establishment timer | | useT315 | | RBS1-717 |
| - RB information to setup | | | | RBS1-718 |
| - RB identity | | 25 | | RBS1-719 |
| - PDCP info | | | | RBS1-720 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-721 |
| - Max PDCP SN window size | | Not present | | RBS1-722 |
| - PDCP PDU header | | Absent | | RBS1-723 |
| - Header compression information | | Not present | | RBS1-724 |
| - CHOICE RLC info type | | RLC info | | RBS1-725 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-726 |
| - Transmission RLC discard | | | | RBS1-727 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-728 |
| - MAX_DAT | | 15 | | RBS1-729 |
| - Transmission window size | | 256 | | RBS1-730 |
| - Timer_RST | | 500 | | RBS1-731 |
| - Max_RST | | 4 | | RBS1-732 |
| - Polling info | | | | RBS1-733 |
| - Timer_poll_prohibit | | 100 | | RBS1-734 |
| - Timer_poll | | 100 | | RBS1-735 |
| - Poll_PDU | | Not Present | | RBS1-736 |
| - Poll_SDU | | 1 | | RBS1-737 |
| - Last transmission PDU poll | | TRUE | | RBS1-738 |
| - Last retransmission PDU poll | | TRUE | | RBS1-739 |
| - Poll_Windows | | 99 | | RBS1-740 |
| - Timer_poll_periodic | | Not Present | | RBS1-741 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-742 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-743 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS1-744 |
| - In-sequence delivery | | TRUE | | RBS1-745 |
| - Receiving window size | | 768 | | RBS1-746 |
| - Downlink RLC status info | | | | RBS1-747 |
| - Timer_status_prohibit | | 100 | | RBS1-748 |
| - Timer_EPC | | Not Present | | RBS1-749 |
| - Missing PDU indicator | | TRUE | | RBS1-750 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-751 |
| - One sided RLC re-establishment | | FALSE | | RBS1-752 |
| - Alternative E-bit interpretation | | Not present | | RBS1-753 |
| - Use special value of HE field | | TRUE | | RBS1-754 |
| - RB mapping info | | | | RBS1-755 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-756 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-757 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-758 |
| - Uplink transport channel type | | E-DCH | | RBS1-759 |
| - Logical channel identity | | 7 | | RBS1-760 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-761 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS1-762 |
| - DDI | | 5 | | RBS1-763 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-764 |
| - RLC PDU size | | 336 bits | | RBS1-765 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS1-766 |
| - Length indicator size | | - 15 bit | | RBS1-767 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS1-768 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS1-769 |
| - Include in scheduling info | | TRUE | | RBS1-770 |
| - MAC logical channel priority | | 8 | | RBS1-771 |
| - Downlink RLC logical channel info | | | | RBS1-772 |
| - Number of downlink RLC logical | | 1 | | RBS1-773 |

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| channels | | | | |
| - Downlink transport channel type | | HS-DSCH | | RBS1-774 |
| - DL DCH Transport channel identity | | Not present | | RBS1-775 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-776 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS1-777 |
| - DL HS-DSCH MAC-ehs Queue Id | | 0 | | RBS1-778 |
| - Logical channel identity | | 7 | | RBS1-779 |
| - RAB information for setup | A17 | | Rel-7 | RBS1-780 |
| - RAB info | | (high-speed UM DTCH for PS domain) | | RBS1-781 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-782 |
| - CN domain identity | | PS domain | | RBS1-783 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-784 |
| - Re-establishment timer | | useT315 | | RBS1-785 |
| - RB information to setup | | | | RBS1-786 |
| - RB identity | | 25 | | RBS1-787 |
| - PDCP info | | | | RBS1-788 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-789 |
| - Max PDCP SN window size | | Not present | | RBS1-790 |
| - PDCP PDU header | | Absent | | RBS1-791 |
| - Header compression information | | Not present | | RBS1-792 |
| - CHOICE RLC info type | | RLC info | | RBS1-793 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS1-794 |
| - Transmission RLC discard | | Not present | | RBS1-795 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS1-796 |
| - DL UM RLC LI size | | 7 | | RBS1-797 |
| - DL Reception Window Size | | Not present | | RBS1-798 |
| - One sided RLC re-establishment | | FALSE | | RBS1-799 |
| - Alternative E-bit interpretation | | TRUE | | RBS1-800 |
| - Use special value of HE field | | Not present | | RBS1-801 |
| - RB mapping info | | | | RBS1-802 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-803 |
| - RLC logical channel mapping indicator | | Not present | | RBS1-804 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-805 |
| - Uplink transport channel type | | DCH | | RBS1-806 |
| - UL Transport channel identity | | 1 | | RBS1-807 |
| - Logical channel identity | | Not Present | | RBS1-808 |
| - CHOICE RLC size list | | Configured | | RBS1-809 |
| - MAC logical channel priority | | 8 | | RBS1-810 |
| - Downlink RLC logical channel info | | | | RBS1-811 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-812 |
| channels | | | | |
| - Downlink transport channel type | | HS-DSCH | | RBS1-813 |
| - DL DCH Transport channel identity | | Not present | | RBS1-814 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-815 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS1-816 |
| - DL HS-DSCH MAC-ehs Queue Id | | 0 | | RBS1-817 |
| - Logical channel identity | | 7 | | RBS1-818 |
| - RAB information for setup | A18 | | Rel-8 | RBS1-819 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS1-820 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-821 |
| - CN domain identity | | PS domain | | RBS1-822 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-823 |
| - Re-establishment timer | | useT315 | | RBS1-824 |
| - RB information to setup | | | | RBS1-825 |
| - RB identity | | 25 | | RBS1-826 |
| - PDCP info | | | | RBS1-827 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-828 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------|---|---------|----------|
| - Max PDCP SN window size | | Not present | | RBS1-829 |
| - PDCP PDU header | | Absent | | RBS1-830 |
| - Header compression information | | Not present | | RBS1-831 |
| - CHOICE RLC info type | | RLC info | | RBS1-832 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-833 |
| - Transmission RLC discard | | | | RBS1-834 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-835 |
| - MAX_DAT | | 15 | | RBS1-836 |
| - Transmission window size | | 128 | | RBS1-837 |
| - Timer_RST | | 500 | | RBS1-838 |
| - Max_RST | | 4 | | RBS1-839 |
| - Polling info | | | | RBS1-840 |
| - Timer_poll_prohibit | | 100 | | RBS1-841 |
| - Timer_poll | | 100 | | RBS1-842 |
| - Poll_PDU | | Not Present | | RBS1-843 |
| - Poll_SDU | | 1 | | RBS1-844 |
| - Last transmission PDU poll | | TRUE | | RBS1-845 |
| - Last retransmission PDU poll | | TRUE | | RBS1-846 |
| - Poll_Windows | | 99 | | RBS1-847 |
| - Timer_poll_periodic | | Not Present | | RBS1-848 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-849 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-850 |
| - Length indicator size | | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" | | RBS1-851 |
| - In-sequence delivery | | TRUE | | RBS1-852 |
| - Receiving window size | | 768 | | RBS1-853 |
| - Downlink RLC status info | | | | RBS1-854 |
| - Timer_status_prohibit | | 100 | | RBS1-855 |
| - Timer_EPC | | Not Present | | RBS1-856 |
| - Missing PDU indicator | | TRUE | | RBS1-857 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-858 |
| - One sided RLC re-establishment | | FALSE | | RBS1-859 |
| - Alternative E-bit interpretation | | Not present | | RBS1-860 |
| - Use special value of HE field | | TRUE | | RBS1-861 |
| - RB mapping info | | | | RBS1-862 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-863 |
| - RLC logical channel mapping indicator | | Not present | | RBS1-864 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-865 |
| - Uplink transport channel type | | E-DCH | | RBS1-866 |
| - Logical channel identity | | 9 | | RBS1-867 |
| - E-DCH MAC-d flow identity | | 4 | | RBS1-868 |
| - CHOICE RLC PDU size | MAC-I-FIXED | Fixed size | Rel-8 | RBS1-869 |
| - DDI | | 7 | | RBS1-870 |
| - RLC PDU size list | | 12 RLC PDU sizes | | RBS1-871 |
| - RLC PDU size | | 96 bits | | RBS1-872 |
| - RLC PDU size | | 112 bits | | RBS1-873 |
| - RLC PDU size | | 144 bits | | RBS1-874 |
| - RLC PDU size | | 160 bits | | RBS1-875 |
| - RLC PDU size | | 176 bits | | RBS1-876 |
| - RLC PDU size | | 192 bits | | RBS1-877 |
| - RLC PDU size | | 208 bits | | RBS1-878 |
| - RLC PDU size | | 224 bits | | RBS1-879 |
| - RLC PDU size | | 288 bits | | RBS1-880 |
| - RLC PDU size | | 296 bits | | RBS1-881 |
| - RLC PDU size | | 312 bits | | RBS1-882 |
| - RLC PDU size | | 336 bits | | RBS1-883 |
| - CHOICE RLC PDU size | MAC-I-FLEX | Flexible size | Rel-8 | RBS1-884 |
| - Length indicator size | | Not present | | RBS1-885 |
| - Minimum UL RLC PDU size | | See clause 6.11 | | RBS1-886 |
| - Largest UL RLC PDU size | | See clause 6.11 | | RBS1-887 |
| - Include in scheduling info | | TRUE | | RBS1-888 |

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| - MAC logical channel priority | | 8 | | RBS1-889 |
| - Downlink RLC logical channel info | | | | RBS1-890 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-891 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-892 |
| - DL DCH Transport channel identity | | Not present | | RBS1-893 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-894 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-895 |
| - DL HS-DSCH MAC-ehs Queue Id | | 0 | | RBS1-896 |
| - Logical channel identity | | 7 | | RBS1-897 |
| - RAB information for setup | A22 | | Rel-8 | RBS1-898 |
| - RAB info | | (first UM DTCH for PS domain) 0000 0101B | | RBS1-899 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-900 |
| - CN domain identity | | PS domain | | RBS1-901 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-902 |
| - Re-establishment timer | | useT315 | | RBS1-903 |
| - RB information to setup | | | | RBS1-904 |
| - RB identity | | 26 | | RBS1-905 |
| - PDCP info | | | | RBS1-906 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-907 |
| - Max PDCP SN window size | | Not present | | RBS1-908 |
| - PDCP PDU header | | Absent | | RBS1-909 |
| - Header compression information | | Not present | | RBS1-910 |
| - CHOICE RLC info type | | RLC info | | RBS1-911 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS1-912 |
| - Transmission RLC discard | | Not present | | RBS1-913 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS1-914 |
| - DL UM RLC LI size | | 7 | | RBS1-915 |
| - DL Reception Window Size | | Not present | | RBS1-916 |
| - Alternative E-bit interpretation | | TRUE | | RBS1-917 |
| - One sided RLC re-establishment | | FALSE | | RBS1-918 |
| - RB mapping info | | | | RBS1-919 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-920 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-921 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-922 |
| - Uplink transport channel type | | E-DCH | | RBS1-923 |
| - Logical channel identity | | 7 | | RBS1-924 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-925 |
| - CHOICE RLC PDU size | | Flexible size | | RBS1-926 |
| - Length indicator size | | Not present | | RBS1-927 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS1-928 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS1-929 |
| - Include in scheduling info | | TRUE | | RBS1-930 |
| - MAC logical channel priority | | 8 | | RBS1-931 |
| - Downlink RLC logical channel info | | | | RBS1-932 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-933 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-934 |
| - DL DCH Transport channel identity | | Not present | | RBS1-935 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-936 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-937 |
| - DL HS-DSCH MAC-ehs Queue Id | | 2 | | RBS1-938 |
| - Logical channel identity | | 7 | | RBS1-939 |
| - RAB information for setup | A22 | | Rel-8 | RBS1-940 |
| - RAB info | | (second high-speed UM DTCH for PS domain) 0000 0110B | | RBS1-941 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-942 |
| - CN domain identity | | PS domain | | RBS1-943 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-944 |
| - Re-establishment timer | | useT315 | | RBS1-945 |
| - RB information to setup | | | | RBS1-946 |

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| <ul style="list-style-type: none"> - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - Alternative E-bit interpretation - One sided RLC re-establishment - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | 27 | | RBS1-947 |
| | | RBS1-948 | | |
| | | FALSE | | RBS1-949 |
| | | Not present | | RBS1-950 |
| | | Absent | | RBS1-951 |
| | | Not present | | RBS1-952 |
| | | RLC info | | RBS1-953 |
| | | UM RLC | | RBS1-954 |
| | | Not present | | RBS1-955 |
| | | UM RLC | | RBS1-956 |
| | | 7 | | RBS1-957 |
| | | Not present | | RBS1-958 |
| | | TRUE | | RBS1-959 |
| | | FALSE | | RBS1-960 |
| | | | | RBS1-961 |
| | | 1 RBMuxOption | | RBS1-962 |
| | | Not Present | | RBS1-963 |
| | | 1 | | RBS1-964 |
| | | E-DCH | | RBS1-965 |
| | | 8 | | RBS1-966 |
| | | 3 | | RBS1-967 |
| | | Flexible size | | RBS1-968 |
| | | Not present | | RBS1-969 |
| | | See clause 6.10 | | RBS1-970 |
| | | See clause 6.10 | | RBS1-971 |
| | | TRUE | | RBS1-972 |
| | | 8 | | RBS1-973 |
| | | | | RBS1-974 |
| | | 1 | | RBS1-975 |
| | | HS-DSCH | | RBS1-976 |
| | | Not present | | RBS1-977 |
| Not present | RBS1-978 | | | |
| MAC-ehs | RBS1-979 | | | |
| 3 | RBS1-980 | | | |
| 8 | RBS1-981 | | | |
| - RAB information for setup | A22 | (third high-speed UM DTCH for PS domain) | Rel-8 | RBS1-982 |
| - RAB info | | 0000 0111B | | RBS1-983 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-984 |
| - CN domain identity | | PS domain | | RBS1-985 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-986 |
| - Re-establishment timer | | useT315 | | RBS1-987 |
| - RB information to setup | | | | RBS1-988 |
| - RB identity | | 21 | | RBS1-989 |
| - PDCP info | | | | RBS1-990 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-991 |
| - Max PDCP SN window size | | Not present | | RBS1-992 |
| - PDCP PDU header | | Absent | | RBS1-993 |
| - Header compression information | | Not present | | RBS1-994 |
| - CHOICE RLC info type | | RLC info | | RBS1-995 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBS1-996 |
| - Transmission RLC discard | | Not present | | RBS1-997 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBS1-998 |
| - DL UM RLC LI size | | 7 | | RBS1-999 |
| - DL Reception Window Size | | Not present | | RBS1-1000 |
| - Alternative E-bit interpretation | | TRUE | | RBS1-1001 |
| - One sided RLC re-establishment | | FALSE | | RBS1-1002 |
| - RB mapping info | | | | RBS1-1003 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1004 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1005 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1006 |
| - Uplink transport channel type | | E-DCH | | RBS1-1007 |
| - Logical channel identity | | 9 | | RBS1-1008 |

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| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | <ul style="list-style-type: none"> 4 Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 4 9 | | <ul style="list-style-type: none"> RBS1-1009 RBS1-1010 RBS1-1011 RBS1-1012 RBS1-1013 RBS1-1014 RBS1-1015 RBS1-1016 RBS1-1017 RBS1-1018 RBS1-1019 RBS1-1020 RBS1-1021 RBS1-1022 RBS1-1023 |
| <ul style="list-style-type: none"> - RAB information for setup <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup <ul style="list-style-type: none"> - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type <ul style="list-style-type: none"> - CHOICE Uplink RLC mode <ul style="list-style-type: none"> - Transmission RLC discard - CHOICE Downlink RLC mode <ul style="list-style-type: none"> - DL UM RLC LI size - DL Reception Window Size - One sided RLC re-establishment - Alternative E-bit interpretation - Use special value of HE field - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type <ul style="list-style-type: none"> - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | A23 | <ul style="list-style-type: none"> (high-speed UM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info UM RLC Not Present UM RLC 15 Not present FALSE TRUE Not present 1 RBMuxOption Not present 1 E-DCH 7 2 Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 0 7 | Rel-8 | <ul style="list-style-type: none"> RBS1-1024 RBS1-1025 RBS1-1026 RBS1-1027 RBS1-1028 RBS1-1029 RBS1-1030 RBS1-1031 RBS1-1032 RBS1-1033 RBS1-1034 RBS1-1035 RBS1-1036 RBS1-1037 RBS1-1038 RBS1-1039 RBS1-1040 RBS1-1041 RBS1-1042 RBS1-1043 RBS1-1044 RBS1-1045 RBS1-1046 RBS1-1047 RBS1-1048 RBS1-1049 RBS1-1050 RBS1-1051 RBS1-1052 RBS1-1053 RBS1-1054 RBS1-1055 RBS1-1056 RBS1-1057 RBS1-1058 RBS1-1059 RBS1-1060 RBS1-1061 RBS1-1062 RBS1-1063 RBS1-1064 RBS1-1065 RBS1-1066 |
| <ul style="list-style-type: none"> - RAB information for setup <ul style="list-style-type: none"> - RAB info | A24 | <ul style="list-style-type: none"> (high-speed AM DTCH for PS domain) | Rel-8 | <ul style="list-style-type: none"> RBS1-1067 RBS1-1068 |

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| - RAB identity | | 0000 0101B | | RBS1-1069 |
| The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | | | RBS1-1070 |
| - CN domain identity | | PS domain | | RBS1-1071 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-1072 |
| - Re-establishment timer | | useT315 | | RBS1-1073 |
| - RB information to setup | | | | RBS1-1074 |
| - RB identity | | 25 | | RBS1-1075 |
| - PDCP info | | | | RBS1-1076 |
| - Support for lossless SRNS relocation | | FALSE | | RBS1-1077 |
| - Max PDCP SN window size | | Not present | | RBS1-1078 |
| - PDCP PDU header | | Absent | | RBS1-1079 |
| - Header compression information | | Not present | | RBS1-1080 |
| - CHOICE RLC info type | | RLC info | | RBS1-1081 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-1082 |
| - Transmission RLC discard | | | | RBS1-1083 |
| - CHOICE SDU discard mode | | No Discard | | RBS1-1084 |
| - MAX_DAT | | 15 | | RBS1-1085 |
| - Transmission window size | | 128 | | RBS1-1086 |
| - Timer_RST | | 500 | | RBS1-1087 |
| - Max_RST | | 4 | | RBS1-1088 |
| - Polling info | | | | RBS1-1089 |
| - Timer_poll_prohibit | | 100 | | RBS1-1090 |
| - Timer_poll | | 100 | | RBS1-1091 |
| - Poll_PDU | | Not Present | | RBS1-1092 |
| - Poll_SDU | | 1 | | RBS1-1093 |
| - Last transmission PDU poll | | TRUE | | RBS1-1094 |
| - Last retransmission PDU poll | | TRUE | | RBS1-1095 |
| - Poll_Windows | | 99 | | RBS1-1096 |
| - Timer_poll_periodic | | Not Present | | RBS1-1097 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-1098 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RBS1-1099 |
| - In-sequence delivery | | TRUE | | RBS1-1100 |
| - Receiving window size | | 768 | | RBS1-1101 |
| - Downlink RLC status info | | | | RBS1-1102 |
| - Timer_status_prohibit | | 100 | | RBS1-1103 |
| - Timer_EPC | | Not Present | | RBS1-1104 |
| - Missing PDU indicator | | TRUE | | RBS1-1105 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-1106 |
| - One sided RLC re-establishment | | FALSE | | RBS1-1107 |
| - Alternative E-bit interpretation | | Not present | | RBS1-1108 |
| - Use special value of HE field | | TRUE | | RBS1-1109 |
| - RB mapping info | | | | RBS1-1110 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1111 |
| - RLC logical channel mapping indicator | | Not present | | RBS1-1112 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1113 |
| - Uplink transport channel type | | E-DCH | | RBS1-1114 |
| - Logical channel identity | | 7 | | RBS1-1115 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1116 |
| - CHOICE RLC PDU size | | Flexible size | | RBS1-1117 |
| - Length indicator size | | 15 bit | | RBS1-1118 |
| - Minimum UL RLC PDU size | | See clause 6.10 | | RBS1-1119 |
| - Largest UL RLC PDU size | | See clause 6.10 | | RBS1-1120 |
| - Include in scheduling info | | TRUE | | RBS1-1121 |
| - MAC logical channel priority | | 8 | | RBS1-1122 |
| - Downlink RLC logical channel info | | | | RBS1-1123 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-1124 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1125 |
| - DL DCH Transport channel identity | | Not present | | RBS1-1126 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-1127 |
| - CHOICE DL MAC header type | | MAC-ehs | | RBS1-1128 |
| - DL HS-DSCH MAC-ehs Queue Id | | 2 | | RBS1-1129 |
| - Logical channel identity | | 7 | | RBS1-1130 |
| RB information to reconfigure list | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-1131 |

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| | , A9, A10 | | Rel-5 | RBS1-1132 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, | | Rel-7 | RBS1-1133 |
| | A21, A22, A23 | | Rel-8 | RBS1-1134 |
| RB information to be affected list | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-1135 |
| | , A9, A10 | | Rel-5 | RBS1-1136 |
| | , A11, A16, A17, | | Rel-7 | RBS1-1137 |
| | A18, A19, A20, A21 | | Rel-8 | RBS1-1138 |
| RB information to be affected | A12, A14, A22 | | Rel-7 | RBS1-1139 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS1-1140 |
| - RB mapping info | | | | RBS1-1141 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1142 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1143 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1144 |
| - Uplink transport channel type | | E-DCH | | RBS1-1145 |
| - Logical channel identity | | 1 | | RBS1-1146 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1147 |
| - DDI | | 1 | | RBS1-1148 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1149 |
| - RLC PDU size | | 144 bits | | RBS1-1150 |
| - Include in scheduling info | | FALSE | | RBS1-1151 |
| - MAC logical channel priority | | 1 | | RBS1-1152 |
| - Downlink RLC logical channel info | | | | RBS1-1153 |
| - Number of RLC logical channels | | 1 | | RBS1-1154 |
| - Downlink transport channel type | | DCH | | RBS1-1155 |
| - DL DCH Transport channel identity | | 10 | | RBS1-1156 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1157 |
| - Logical channel identity | | 1 | | RBS1-1158 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS1-1159 |
| - RB mapping info | | | | RBS1-1160 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1161 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1162 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1163 |
| - Uplink transport channel type | | E-DCH | | RBS1-1164 |
| - Logical channel identity | | 2 | | RBS1-1165 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1166 |
| - DDI | | 2 | | RBS1-1167 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1168 |
| - RLC PDU size | | 144 bits | | RBS1-1169 |
| - Include in scheduling info | | FALSE | | RBS1-1170 |
| - MAC logical channel priority | | 2 | | RBS1-1171 |
| - Downlink RLC logical channel info | | | | RBS1-1172 |
| - Number of RLC logical channels | | 1 | | RBS1-1173 |
| - Downlink transport channel type | | DCH | | RBS1-1174 |
| - DL DCH Transport channel identity | | 10 | | RBS1-1175 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1176 |
| - Logical channel identity | | 2 | | RBS1-1177 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS1-1178 |
| - RB mapping info | | | | RBS1-1179 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1180 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1181 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1182 |
| - Uplink transport channel type | | E-DCH | | RBS1-1183 |
| - Logical channel identity | | 3 | | RBS1-1184 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1185 |
| - DDI | | 3 | | RBS1-1186 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1187 |
| - RLC PDU size | | 144 bits | | RBS1-1188 |

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| <ul style="list-style-type: none"> - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity | | FALSE | | RBS1-1189 | | |
| | | 3 | | RBS1-1190 | | |
| | | | | | | RBS1-1191 |
| | | 1 | | | RBS1-1192 | |
| | | DCH | | | RBS1-1193 | |
| | | 10 | | | RBS1-1194 | |
| | | Not Present | | | RBS1-1195 | |
| | | 3 | | | RBS1-1196 | |
| | | 4 (AM DCCH for NAS Low Priority) | | | RBS1-1197 | |
| | | | | | RBS1-1198 | |
| | | 1 RBMuxOption | | | RBS1-1199 | |
| | | Not Present | | | RBS1-1200 | |
| | | 1 | | | RBS1-1201 | |
| | | E-DCH | | | RBS1-1202 | |
| | | 4 | | | RBS1-1203 | |
| | | 1 | | | RBS1-1204 | |
| | | 4 | | | RBS1-1205 | |
| | | 1 RLC PDU size | | | RBS1-1206 | |
| | | 144 bits | | | RBS1-1207 | |
| | | FALSE | | | RBS1-1208 | |
| 4 | | RBS1-1209 | | | | |
| | | RBS1-1210 | | | | |
| 1 | | RBS1-1211 | | | | |
| DCH | | RBS1-1212 | | | | |
| 10 | | RBS1-1213 | | | | |
| Not Present | | RBS1-1214 | | | | |
| 4 | | RBS1-1215 | | | | |
| RB information to be affected | A13, A15 A19, A20 | | Rel-7 Rel-8 | RBS1-1216 | | |
| <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity | | 1 (UM DCCH for RRC) | | RBS1-1217 | | |
| | | | | | RBS1-1218 | |
| | | | | | RBS1-1219 | |
| | | 1 RBMuxOption | | | RBS1-1220 | |
| | | Not Present | | | RBS1-1221 | |
| | | 1 | | | RBS1-1222 | |
| | | E-DCH | | | RBS1-1223 | |
| | | 1 | | | RBS1-1224 | |
| | | 1 | | | RBS1-1225 | |
| | | 1 | | | RBS1-1226 | |
| | | 1 RLC PDU size | | | RBS1-1227 | |
| | | 144 bits | | | RBS1-1228 | |
| | | FALSE | | | RBS1-1229 | |
| | | 1 | | | RBS1-1230 | |
| | | | | | RBS1-1231 | |
| | | 1 | | | RBS1-1232 | |
| | | HS-DSCH | | | RBS1-1233 | |
| | | Not present | | | RBS1-1234 | |
| | | Not present | | | RBS1-1235 | |
| | | 1 | | | RBS1-1236 | |
| | | 1 | | | RBS1-1237 | |
| | | 2 (AM DCCH for RRC) | | | RBS1-1238 | |
| | | | | | RBS1-1239 | |
| | | 1 RBMuxOption | | | RBS1-1240 | |
| | | Not Present | | | RBS1-1241 | |
| | | 1 | | | RBS1-1242 | |
| | | E-DCH | | | RBS1-1243 | |
| | | 2 | | | RBS1-1244 | |
| | | 1 | | | RBS1-1245 | |
| | | 2 | | | RBS1-1246 | |
| 1 RLC PDU size | | RBS1-1247 | | | | |
| 144 bits | | RBS1-1248 | | | | |
| FALSE | | RBS1-1249 | | | | |
| 2 | | RBS1-1250 | | | | |
| | | RBS1-1251 | | | | |
| 1 | | RBS1-1252 | | | | |
| HS-DSCH | | RBS1-1253 | | | | |
| Not Present | | RBS1-1254 | | | | |
| Not Present | | RBS1-1255 | | | | |

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| <ul style="list-style-type: none"> - DL HS-DSCH MAC-d flow identity - Logical channel identity - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity | | 1 | | RBS1-1256 |
| | | 2 | | RBS1-1257 |
| | | 3 (AM DCCH for NAS High Priority) | | RBS1-1258 |
| | | 1 RBMuxOption | | RBS1-1259 |
| | | Not Present | | RBS1-1260 |
| | | 1 | | RBS1-1261 |
| | | E-DCH | | RBS1-1262 |
| | | 3 | | RBS1-1263 |
| | | 1 | | RBS1-1264 |
| | | 3 | | RBS1-1265 |
| | | 1 RLC PDU size | | RBS1-1266 |
| | | 144 bits | | RBS1-1267 |
| | | FALSE | | RBS1-1268 |
| | | 3 | | RBS1-1269 |
| | | 3 | | RBS1-1270 |
| | | 1 | | RBS1-1271 |
| | | HS-DSCH | | RBS1-1272 |
| | | Not Present | | RBS1-1273 |
| | | Not Present | | RBS1-1274 |
| | | 1 | | RBS1-1275 |
| | | 3 | | RBS1-1276 |
| | | 4 (AM DCCH for NAS Low Priority) | | RBS1-1277 |
| | | 1 RBMuxOption | | RBS1-1278 |
| | | Not Present | | RBS1-1279 |
| | | 1 | | RBS1-1280 |
| | | E-DCH | | RBS1-1281 |
| | | 4 | | RBS1-1282 |
| | | 1 | | RBS1-1283 |
| | | 4 | | RBS1-1284 |
| | | 1 RLC PDU size | | RBS1-1285 |
| 144 bits | RBS1-1286 | | | |
| FALSE | RBS1-1287 | | | |
| 4 | RBS1-1288 | | | |
| 1 | RBS1-1289 | | | |
| HS-DSCH | RBS1-1290 | | | |
| Not Present | RBS1-1291 | | | |
| Not Present | RBS1-1292 | | | |
| 1 | RBS1-1293 | | | |
| 4 | RBS1-1294 | | | |
| 1 (UM DCCH for RRC) | RBS1-1295 | | | |
| 1 RBMuxOption | RBS1-1296 | | | |
| Not Present | RBS1-1297 | | | |
| Not Present | RBS1-1298 | | | |
| MAC-ehs | RBS1-1299 | | | |
| 1 | RBS1-1300 | | | |
| 1 RLC PDU size | RBS1-1301 | | | |
| 144 bits | RBS1-1302 | | | |
| FALSE | RBS1-1303 | | | |
| 1 | RBS1-1304 | | | |
| 1 | RBS1-1305 | | | |
| Fixed size | RBS1-1306 | | | |
| 1 | RBS1-1307 | | | |
| 1 RLC PDU size | RBS1-1308 | | | |
| 144 bits | RBS1-1309 | | | |
| FALSE | RBS1-1310 | | | |
| 1 | RBS1-1311 | | | |
| 1 | RBS1-1312 | | | |
| 1 | RBS1-1313 | | | |
| HS-DSCH | RBS1-1314 | | | |
| Not present | RBS1-1315 | | | |
| Not present | RBS1-1316 | | | |
| MAC-ehs | RBS1-1317 | | | |
| 1 | RBS1-1318 | | | |
| 1 | RBS1-1319 | | | |
| 2 (AM DCCH for RRC) | RBS1-1320 | | | |
| | RBS1-1321 | | | |
| | RBS1-1322 | | | |

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| <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info <ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | 1 RBMuxOption Not Present 1 E-DCH 2 1 Fixed size 2 1 RLC PDU size 144 bits FALSE 2 1 HS-DSCH Not Present Not Present MAC-ehs 1 2 3 (AM DCCH for NAS High Priority) | Rel-8 | RBS1-1323 RBS1-1324 RBS1-1325 RBS1-1326 RBS1-1327 RBS1-1328 RBS1-1329 RBS1-1330 RBS1-1331 RBS1-1332 RBS1-1333 RBS1-1334 RBS1-1335 RBS1-1336 RBS1-1337 RBS1-1338 RBS1-1339 RBS1-1340 RBS1-1341 RBS1-1342 RBS1-1343 RBS1-1344 RBS1-1345 RBS1-1346 RBS1-1347 RBS1-1348 RBS1-1349 RBS1-1350 RBS1-1351 RBS1-1352 RBS1-1353 RBS1-1354 RBS1-1355 RBS1-1356 RBS1-1357 RBS1-1358 RBS1-1359 RBS1-1360 RBS1-1361 RBS1-1362 RBS1-1363 RBS1-1364 RBS1-1365 RBS1-1366 RBS1-1367 RBS1-1368 RBS1-1369 RBS1-1370 RBS1-1371 RBS1-1372 RBS1-1373 RBS1-1374 RBS1-1375 RBS1-1376 RBS1-1377 RBS1-1378 RBS1-1379 RBS1-1380 RBS1-1381 RBS1-1382 RBS1-1383 RBS1-1384 RBS1-1385 RBS1-1386 | |
| | RB information to be affected <ul style="list-style-type: none"> - RB identity - RB mapping info | A23 | 1 (UM DCCH for RRC) | Rel-8 | RBS1-1387 RBS1-1388 RBS1-1389 |

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| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1390 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1391 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1392 |
| - Uplink transport channel type | | E-DCH | | RBS1-1393 |
| - Logical channel identity | | 1 | | RBS1-1394 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1395 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1396 |
| - DDI | | Not Present | | RBS1-1397 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1398 |
| - RLC PDU size | | 144 bits | | RBS1-1399 |
| - Include in scheduling info | | FALSE | | RBS1-1400 |
| - MAC logical channel priority | | 1 | | RBS1-1401 |
| - Downlink RLC logical channel info | | | | RBS1-1402 |
| - Number of RLC logical channels | | 1 | | RBS1-1403 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1404 |
| - DL DCH Transport channel identity | | Not present | | RBS1-1405 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-1406 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1407 |
| - DL HS-DSCH MAC-ehs Queue Id | | 1 | | RBS1-1408 |
| - Logical channel identity | | 1 | | RBS1-1409 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS1-1410 |
| - RB mapping info | | | | RBS1-1411 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1412 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1413 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1414 |
| - Uplink transport channel type | | E-DCH | | RBS1-1415 |
| - Logical channel identity | | 2 | | RBS1-1416 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1417 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1418 |
| - DDI | | Not Present | | RBS1-1419 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1420 |
| - RLC PDU size | | 144 bits | | RBS1-1421 |
| - Include in scheduling info | | FALSE | | RBS1-1422 |
| - MAC logical channel priority | | 2 | | RBS1-1423 |
| - Downlink RLC logical channel info | | | | RBS1-1424 |
| - Number of RLC logical channels | | 1 | | RBS1-1425 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1426 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-1427 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1428 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1429 |
| - DL HS-DSCH MAC-ehs Queue Id | | 1 | | RBS1-1430 |
| - Logical channel identity | | 2 | | RBS1-1431 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS1-1432 |
| - RB mapping info | | | | RBS1-1433 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1434 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1435 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1436 |
| - Uplink transport channel type | | E-DCH | | RBS1-1437 |
| - Logical channel identity | | 3 | | RBS1-1438 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1439 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1440 |
| - DDI | | Not Present | | RBS1-1441 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1442 |
| - RLC PDU size | | 144 bits | | RBS1-1443 |
| - Include in scheduling info | | FALSE | | RBS1-1444 |
| - MAC logical channel priority | | 3 | | RBS1-1445 |
| - Downlink RLC logical channel info | | | | RBS1-1446 |
| - Number of RLC logical channels | | 1 | | RBS1-1447 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1448 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-1449 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1450 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1451 |
| - DL HS-DSCH MAC-ehs Queue Id | | 1 | | RBS1-1452 |
| - Logical channel identity | | 3 | | RBS1-1453 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBS1-1454 |
| - RB mapping info | | | | RBS1-1455 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1456 |

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| - RLC logical channel mapping indicator | | Not Present | | RBS1-1457 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1458 |
| - Uplink transport channel type | | E-DCH | | RBS1-1459 |
| - Logical channel identity | | 4 | | RBS1-1460 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1461 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1462 |
| - DDI | | Not Present | | RBS1-1463 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1464 |
| - RLC PDU size | | 144 bits | | RBS1-1465 |
| - Include in scheduling info | | FALSE | | RBS1-1466 |
| - MAC logical channel priority | | 4 | | RBS1-1467 |
| - Downlink RLC logical channel info | | | | RBS1-1468 |
| - Number of RLC logical channels | | 1 | | RBS1-1469 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1470 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-1471 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1472 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1473 |
| - DL HS-DSCH MAC-ehs Queue Id | | 1 | | RBS1-1474 |
| - Logical channel identity | | 4 | | RBS1-1475 |
| RB information to be affected | A24 | | Rel-8 | RBS1-1476 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBS1-1477 |
| - RB mapping info | | | | RBS1-1478 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1479 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1480 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1481 |
| - Uplink transport channel type | | E-DCH | | RBS1-1482 |
| - Logical channel identity | | 1 | | RBS1-1483 |
| - E-DCH MAC-d flow identity | | 3 | | RBS1-1484 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1485 |
| - DDI | | 0 (Not applicable for MAC-i/is) | | RBS1-1486 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1487 |
| - RLC PDU size | | 144 bits | | RBS1-1488 |
| - Include in scheduling info | | FALSE | | RBS1-1489 |
| - MAC logical channel priority | | 1 | | RBS1-1490 |
| - Downlink RLC logical channel info | | | | RBS1-1491 |
| - Number of RLC logical channels | | 1 | | RBS1-1492 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1493 |
| - DL DCH Transport channel identity | | Not present | | RBS1-1494 |
| - DL DSCH Transport channel identity | | Not present | | RBS1-1495 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1496 |
| - DL HS-DSCH MAC-ehs Queue Id | | 3 | | RBS1-1497 |
| - Logical channel identity | | 1 | | RBS1-1498 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBS1-1499 |
| - RB mapping info | | | | RBS1-1500 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1501 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-1502 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-1503 |
| - Uplink transport channel type | | E-DCH | | RBS1-1504 |
| - Logical channel identity | | 2 | | RBS1-1505 |
| - E-DCH MAC-d flow identity | | 3 | | RBS1-1506 |
| - CHOICE RLC PDU size | | Fixed size | | RBS1-1507 |
| - DDI | | 0 (Not applicable for MAC-i/is) | | RBS1-1508 |
| - RLC PDU size list | | 1 RLC PDU size | | RBS1-1509 |
| - RLC PDU size | | 144 bits | | RBS1-1510 |
| - Include in scheduling info | | FALSE | | RBS1-1511 |
| - MAC logical channel priority | | 2 | | RBS1-1512 |
| - Downlink RLC logical channel info | | | | RBS1-1513 |
| - Number of RLC logical channels | | 1 | | RBS1-1514 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-1515 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-1516 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-1517 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-1518 |
| - DL HS-DSCH MAC-ehs Queue Id | | 3 | | RBS1-1519 |
| - Logical channel identity | | 2 | | RBS1-1520 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBS1-1521 |
| - RB mapping info | | | | RBS1-1522 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBS1-1523 |

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| <ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size <ul style="list-style-type: none"> - DDI - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity | | Not Present | Rel-8 | RBS1-1524 | |
| | | 1 | | RBS1-1525 | |
| | | E-DCH | | RBS1-1526 | |
| | | 3 | | RBS1-1527 | |
| | | 3 | | RBS1-1528 | |
| | | Fixed size | | RBS1-1529 | |
| | | 0 (Not applicable for MAC-i/is) | | RBS1-1530 | |
| | | 1 RLC PDU size | | RBS1-1531 | |
| | | 144 bits | | RBS1-1532 | |
| | | FALSE | | RBS1-1533 | |
| | | 3 | | RBS1-1534 | |
| | | 3 | | RBS1-1535 | |
| | | 1 | | RBS1-1536 | |
| | | HS-DSCH | | RBS1-1537 | |
| | | Not Present | | RBS1-1538 | |
| | | Not Present | | RBS1-1539 | |
| | | MAC-ehs | | RBS1-1540 | |
| | | 3 | | RBS1-1541 | |
| | | 3 | | RBS1-1542 | |
| | | 4 (AM DCCH for NAS Low Priority) | | RBS1-1543 | |
| | | | | RBS1-1544 | |
| | | 1 RBMuxOption | | RBS1-1545 | |
| | | Not Present | | RBS1-1546 | |
| | | 1 | | RBS1-1547 | |
| | | E-DCH | | RBS1-1548 | |
| | | 4 | | RBS1-1549 | |
| | | 3 | | RBS1-1550 | |
| | | Fixed size | | RBS1-1551 | |
| | | 4 | | RBS1-1552 | |
| | | 1 RLC PDU size | | RBS1-1553 | |
| | | 144 bits | | RBS1-1554 | |
| | | FALSE | | RBS1-1555 | |
| 4 | RBS1-1556 | | | | |
| 4 | RBS1-1557 | | | | |
| 1 | RBS1-1558 | | | | |
| HS-DSCH | RBS1-1559 | | | | |
| Not Present | RBS1-1560 | | | | |
| Not Present | RBS1-1561 | | | | |
| MAC-ehs | RBS1-1562 | | | | |
| 3 | RBS1-1563 | | | | |
| 4 | RBS1-1564 | | | | |
| Downlink counter synchronization info | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-1565 | |
| | , A9, A10 | | | Rel-5 | RBS1-1566 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, | | | Rel-7 | RBS1-1567 |
| | A18, A19, A20, A21, A22, A23, A24 | | | Rel-8 | RBS1-1568 |
| PDCP ROHC target mode | A9, A10 | Not Present | | Rel-5 | RBS1-1569 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, | | | Rel-7 | RBS1-1570 |
| | A18, A19, A20, A21, A22, A23, A24 | | | Rel-8 | RBS1-1571 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | | | RBS1-1572 | |
| | , A9, A10 | | | Rel-5 | RBS1-1573 |

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| | , A16, A17 | | Rel-7 | RBS1-1574 |
| | , A21 | | Rel-8 | RBS1-1575 |
| - PRACH TFCS | | Not Present | | RBS1-1576 |
| - CHOICE mode | | TDD | | RBS1-1577 |
| - Individual UL CCTrCH information | | | | RBS1-1578 |
| - UL TFCS Identity | | | | RBS1-1579 |
| - TFCS ID | | 1 | | RBS1-1580 |
| - Shared Channel Indicator | | FALSE | | RBS1-1581 |
| - UL TFCS | | | | RBS1-1582 |
| - CHOICE TFCI signalling | | Normal | | RBS1-1583 |
| - TFCI Field 1 Information | | | | RBS1-1584 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS1-1585 |
| - TFCS complete reconfiguration information | | | | RBS1-1586 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RBS1-1587 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set | | RBS1-1588 |
| - CTFC | | Reference to clause 6.11.5.4 Parameter Set | | RBS1-1589 |
| - Power offset information | | | | RBS1-1590 |
| - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBS1-1591 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBS1-1592 |
| - CHOICE Gain Factors | | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBS1-1593 |
| - CHOICE mode | | TDD | | RBS1-1594 |
| - Gain Factor β_d | | 15 | | RBS1-1595 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBS1-1596 |
| - CHOICE mode | | TDD | | RBS1-1597 |
| - TFC subset | | | | RBS1-1598 |
| - CHOICE Subset representation | | Full transport format combination set | | RBS1-1599 |
| - TFC subset list | | Not Present | | RBS1-1600 |
| UL Transport channel information common for all transport channels | A11 | | Rel-7 | RBS1-1601 |
| - PRACH TFCS | | Not Present | | RBS1-1602 |
| - CHOICE mode | | TDD | | RBS1-1603 |
| - Individual UL CCTrCH information | | | | RBS1-1604 |
| - UL TFCS Identity | | | | RBS1-1605 |
| - TFCS ID | | 1 | | RBS1-1606 |
| - Shared Channel Indicator | | FALSE | | RBS1-1607 |
| - UL TFCS | | | | RBS1-1608 |
| - CHOICE TFCI signalling | | Normal | | RBS1-1609 |
| - TFCI Field 1 Information | | | | RBS1-1610 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS1-1611 |
| - TFCS complete reconfiguration information | | | | RBS1-1612 |
| - CHOICE CTFC Size | | ctfc2bit | | RBS1-1613 |
| - CTFC information | | | | RBS1-1614 |
| - CTFC | | 0 ((UL DCH RAB, DCCH)=(TF0, TF0)) | | RBS1-1615 |
| - Power offset information | | | | RBS1-1616 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS1-1617 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBS1-1618 |
| - CTFC | | 1 ((UL DCH RAB, DCCH)=(TF0, TF1)) | | RBS1-1619 |
| - CHOICE Gain Factors | | Signalled Gain Factors | | RBS1-1620 |
| - CHOICE mode | | TDD | | RBS1-1621 |
| - Gain factor β_d | | 15 | | RBS1-1622 |
| - Reference TFC ID | | 0 Integer(0.. 3) | | RBS1-1623 |

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| - CHOICE mode | | TDD | | RBS1-1624 |
| - TFC subset | | | | RBS1-1625 |
| - CHOICE Subset representation | | Full transport format combination set | | RBS1-1626 |
| - TFC subset list | | Not Present | | RBS1-1627 |
| UL Transport channel information common for all transport channels | A12, A13, A14, A15, A16a | Not Present | Rel-7 | RBS1-1628 |
| | A18, A19, A20, A22, A23, A24 | | Rel-8 | RBS1-1629 |
| Deleted TrCH information list | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-1630 |
| | , A9, A10 | | Rel-5 | RBS1-1631 |
| | , A11 | | Rel-7 | RBS1-1632 |
| | , A16, A17, A18, A19, A20, A21, A24 | | Rel-8 | RBS1-1633 |
| Deleted TrCH information list | A12, A13, A14, A15, A16a | | Rel-7 | RBS1-1634 |
| | , A22, A23 | | Rel-8 | RBS1-1635 |
| - Uplink transport channel type | | DCH | | RBS1-1636 |
| - UL transport channel identity | | 5 | | RBS1-1637 |
| Added or Reconfigured UL TrCH information | A1, A3 A4, A5, A6, A7 | 1 DCH added, 1 DCH reconfigured | | RBS1-1638 |
| | , A9, A10 | | Rel-5 | RBS1-1639 |
| | , A16, A17 | | Rel-7 | RBS1-1640 |
| | , A21 | | Rel-8 | RBS1-1641 |
| - Added or Reconfigured UL TrCH information | | | | RBS1-1642 |
| - Uplink transport channel type | | DCH | | RBS1-1643 |
| - UL Transport channel identity | | 5 | | RBS1-1644 |
| - TFS | | | | RBS1-1645 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1646 |
| - Dynamic Transport format information | | | | RBS1-1647 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1648 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1649 |
| - Transmission Time Interval | | Not Present | | RBS1-1650 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1651 |
| - CHOICE Logical channel list | | All | | RBS1-1652 |
| - Semi-static Transport Format information | | | | RBS1-1653 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1654 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1655 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1656 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1657 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1658 |
| - Uplink transport channel type | | DCH | | RBS1-1659 |
| - UL Transport channel identity | | 1 | | RBS1-1660 |
| - TFS | | | | RBS1-1661 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1662 |
| - Dynamic Transport format information | | | | RBS1-1663 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1664 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1665 |
| - Transmission Time Interval | | Not Present | | RBS1-1666 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter | | RBS1-1667 |

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| | | Set | | |
| - CHOICE Logical channel list | | All | | RBS1-1668 |
| - Semi-static Transport Format information | | | | RBS1-1669 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1670 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1671 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1672 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1673 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1674 |
| Added or Reconfigured TrCH information list | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS1-1675 |
| - Added or Reconfigured UL TrCH information | | | | RBS1-1676 |
| - Uplink transport channel type | | DCH | | RBS1-1677 |
| - UL Transport channel identity | | 5 | | RBS1-1678 |
| - TFS | | | | RBS1-1679 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1680 |
| - Dynamic Transport format information | | | | RBS1-1681 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1682 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1683 |
| - Transmission Time Interval | | Not Present | | RBS1-1684 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1685 |
| - CHOICE Logical channel list | | All | | RBS1-1686 |
| - Semi-static Transport Format information | | | | RBS1-1687 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1688 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1689 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1690 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1691 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1692 |
| - Uplink transport channel type | | DCH | | RBS1-1693 |
| - UL Transport channel identity | | 1 | | RBS1-1694 |
| - TFS | | | | RBS1-1695 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1696 |
| - Dynamic Transport format information | | | | RBS1-1697 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1698 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1699 |
| - Transmission Time Interval | | Not Present | | RBS1-1700 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1701 |
| - CHOICE Logical channel list | | All | | RBS1-1702 |
| - Semi-static Transport Format information | | | | RBS1-1703 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1704 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1705 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1706 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1707 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1708 |
| - Uplink transport channel type | | DCH | | RBS1-1709 |
| - UL Transport channel identity | | 2 | | RBS1-1710 |

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| - TFS | | | | RBS1-1711 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1712 |
| - Dynamic Transport format information | | | | RBS1-1713 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1714 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1715 |
| - Transmission Time Interval | | Not Present | | RBS1-1716 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1717 |
| - CHOICE Logical channel list | | All | | RBS1-1718 |
| - Semi-static Transport Format information | | | | RBS1-1719 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1720 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1721 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1722 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1723 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1724 |
| - Uplink transport channel type | | DCH | | RBS1-1725 |
| - UL Transport channel identity | | 3 | | RBS1-1726 |
| - TFS | | | | RBS1-1727 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1728 |
| - Dynamic Transport format information | | | | RBS1-1729 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1730 |
| - Number of TBs and TTI List | 1 to maxTF | (This IE is repeated for TF number.) | | RBS1-1731 |
| - Transmission Time Interval | | Not Present | | RBS1-1732 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1733 |
| - CHOICE Logical channel list | | All | | RBS1-1734 |
| - Semi-static Transport Format information | | | | RBS1-1735 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1736 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1737 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1738 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1739 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1740 |
| Added or Reconfigured UL TrCH information | A11 | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured | Rel-7 | RBS1-1741 |
| - Uplink transport channel type | | E-DCH | | RBS1-1742 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1743 |
| - UL MAC header type | | Not present | Rel-8 | RBS1-1744 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS1-1745 |
| - CHOICE <i>mode</i> | | TDD | | RBS1-1746 |
| - HARQ info for E-DCH | | | | RBS1-1747 |
| - HARQ RV Configuration | | rvtable | | RBS1-1748 |
| - Added or reconfigured E-DCH MAC-d flow | | | | RBS1-1749 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1750 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1751 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1752 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1753 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1754 |

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| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1755 |
| - Uplink transport channel type | | DCH | | RBS1-1756 |
| - UL Transport channel identity | | 1 | | RBS1-1757 |
| - TFS | | | | RBS1-1758 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1759 |
| - Dynamic Transport format information | | | | RBS1-1760 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1761 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS1-1762 |
| - Transmission Time Interval | | Not Present | | RBS1-1763 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1764 |
| - CHOICE Logical channel list | | All | | RBS1-1765 |
| - Semi-static Transport Format information | | | | RBS1-1766 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1767 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1768 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1769 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1770 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1771 |
| - Uplink transport channel type | | DCH | | RBS1-1772 |
| - UL Transport channel identity | | 5 | | RBS1-1773 |
| - TFS | | | | RBS1-1774 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-1775 |
| - Dynamic Transport format information | | | | RBS1-1776 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-1777 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS1-1778 |
| - Transmission Time Interval | | Not Present | | RBS1-1779 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-1780 |
| - CHOICE Logical channel list | | All | | RBS1-1781 |
| - Semi-static Transport Format information | | | | RBS1-1782 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-1783 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-1784 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-1785 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-1786 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-1787 |
| Added or Reconfigured UL TrCH information | A12, A13, A16a, A23 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-7 | RBS1-1788 |
| | | | Rel-8 | RBS1-1789 |
| - Uplink transport channel type | | E-DCH | | RBS1-1790 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1791 |
| - UL MAC header type | | Not present | Rel-8 | RBS1-1792 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS1-1793 |
| - CHOICE mode | | TDD | | RBS1-1794 |
| - HARQ info for E-DCH | | | | RBS1-1795 |
| - HARQ RV Configuration | | rvtable | | RBS1-1796 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1797 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1798 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1799 |

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| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1800 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1801 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1802 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS1-1803 |
| - CHOICE <i>mode</i> | | TDD(NULL) | | RBS1-1804 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS1-1805 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1806 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1807 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1808 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1809 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1810 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1811 |
| Added or Reconfigured UL TrCH information | A14 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6 | RBS1-1812 |
| - Uplink transport channel type | | E-DCH | | RBS1-1813 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1814 |
| - UL MAC header type | | Not present | Rel-8 | RBS1-1815 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS1-1816 |
| - CHOICE <i>mode</i> | | TDD | | RBS1-1817 |
| - HARQ info for E-DCH | | | | RBS1-1818 |
| - HARQ RV Configuration | | rvtable | | RBS1-1819 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1820 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1821 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1822 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1823 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1824 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1825 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS1-1826 |
| - CHOICE <i>mode</i> | | TDD(NULL) | | RBS1-1827 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS1-1828 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1829 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1830 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1831 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1832 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1833 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1834 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS1-1835 |
| - E-DCH MAC-d flow identity | | 3 | | RBS1-1836 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1837 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1838 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1839 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1840 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1841 |
| Added or Reconfigured UL TrCH information | A18 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flows | Rel-8 | RBS1-1842 |
| - Uplink transport channel type | | E-DCH | | RBS1-1843 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1844 |
| - UL MAC header type | | Not present | Rel-8 | RBS1-1845 |
| - UL MAC header type | MAC-I-FIXED, | MAC-i/is | Rel-8 | RBS1-1846 |

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| | MAC-I-FLEX | | | |
| - CHOICE mode | | TDD | | RBS1-1847 |
| - HARQ info for E-DCH | | | | RBS1-1848 |
| - HARQ RV Configuration | | rvtable | | RBS1-1849 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1850 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1851 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1852 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1853 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1854 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1855 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1856 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS1-1857 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1858 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1859 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1860 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1861 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1862 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1863 |
| Added or Reconfigured UL TrCH information | A15 | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6 | RBS1-1864 |
| - Uplink transport channel type | | E-DCH | | RBS1-1865 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1866 |
| - UL MAC header type | | Not present | Rel-8 | RBS1-1867 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | Rel-8 | RBS1-1868 |
| - CHOICE mode | | TDD | | RBS1-1869 |
| - HARQ info for E-DCH | | | | RBS1-1870 |
| - HARQ RV Configuration | | rvtable | | RBS1-1871 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1872 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1873 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1874 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1875 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1876 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1877 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBS1-1878 |
| - CHOICE mode | | TDD(NULL) | | RBS1-1879 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS1-1880 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1881 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1882 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS1-1883 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1884 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1885 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS1-1886 |
| - E-DCH MAC-d flow identity | | 4 | | RBS1-1887 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1888 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS1-1889 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1890 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1891 |
| CHOICE mode | | TDD (no data) | | RBS1-1892 |
| Added or Reconfigured UL TrCH information | A19, A20 | 1 E-DCH added with one DCCH | Rel-8 | RBS1-1893 |

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| | | MAC-d flow and one DTCH MAC-d flow | | |
| - Uplink transport channel type | | E-DCH | | RBS1-1894 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1895 |
| - UL MAC header type | | Not present | | RBS1-1896 |
| - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is | | RBS1-1897 |
| - CHOICE mode | | TDD | | RBS1-1898 |
| - HARQ info for E-DCH | | | | RBS1-1899 |
| - HARQ RV Configuration | | rvtable | | RBS1-1900 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1901 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1902 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1903 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1904 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1905 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1906 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1907 |
| - CHOICE mode | | TDD(NULL) | | RBS1-1908 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBS1-1909 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1910 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1911 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1912 |
| - E-DCH MAC-d flow retransmission timer | | 60 | | RBS1-1913 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1914 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1915 |
| Added or Reconfigured UL TrCH information | A22 | 1 E-DCH added with one DCCH MAC-d flow and three DTCH MAC-d flows | Rel-8 | RBS1-1916 |
| - Uplink transport channel type | | E-DCH | | RBS1-1917 |
| - CHOICE UL parameters | | E-DCH | | RBS1-1918 |
| - UL MAC header type | | Not present | | RBS1-1919 |
| - UL MAC header type | | MAC-i/is | | RBS1-1920 |
| - CHOICE mode | | TDD | Rel-7 | RBS1-1921 |
| - HARQ info for E-DCH | | | | RBS1-1922 |
| - HARQ RV Configuration | | rvtable | | RBS1-1923 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBS1-1924 |
| - E-DCH MAC-d flow identity | | 1 | | RBS1-1925 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1926 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS1-1927 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1928 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1929 |
| - Added or reconfigured E-DCH MAC-d flow | | (for first DTCH) | | RBS1-1930 |
| - E-DCH MAC-d flow identity | | 2 | | RBS1-1931 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1932 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS1-1933 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1934 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1935 |
| - Added or reconfigured E-DCH MAC-d flow | | (for second DTCH) | | RBS1-1936 |
| - E-DCH MAC-d flow identity | | 3 | | RBS1-1937 |
| - E-DCH MAC-d flow power offset | | 0 | | RBS1-1938 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBS1-1939 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBS1-1940 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBS1-1941 |

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| <ul style="list-style-type: none"> - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type | | (for third DTCH) | | RBS1-1942 |
| | | 4 | | RBS1-1943 |
| | | 0 | | RBS1-1944 |
| | | 7 | | RBS1-1945 |
| | | Not Present | | RBS1-1946 |
| | | Scheduled grant info | | RBS1-1947 |
| Added or Reconfigured UL TrCH information | A24 | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-8 | RBS1-1948 |
| <ul style="list-style-type: none"> - Uplink transport channel type - CHOICE UL parameters - UL MAC header type | MAC-I-FIXED, MAC-I-FLEX | E-DCH | | RBS1-1949 |
| | | E-DCH | | RBS1-1950 |
| | | MAC-i/is | | RBS1-1951 |
| <ul style="list-style-type: none"> - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow | | rvtable (for DCCH) | | RBS1-1952 |
| | | | | RBS1-1953 |
| | | | | RBS1-1954 |
| | | | | RBS1-1955 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions | | 2 | | RBS1-1955 |
| | | 0 | | RBS1-1956 |
| | | 7 | | RBS1-1957 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Added or reconfigured E-DCH MAC-d flow | | Not Present | | RBS1-1958 |
| | | Scheduled grant info (for DTCH) | | RBS1-1959 |
| | | | | RBS1-1960 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions | | 3 | | RBS1-1961 |
| | | 0 | | RBS1-1962 |
| | | 7 | | RBS1-1963 |
| <ul style="list-style-type: none"> - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type | | Not Present | | RBS1-1964 |
| | | Scheduled grant info | | RBS1-1965 |
| DL Transport channel information common for all transport channel | A1, A2, A7, A8 | | | RBS1-1966 |
| - SCCPCH TFCS | | Not Present | | RBS1-1967 |
| - CHOICE mode | | TDD | | RBS1-1968 |
| - Individual DL CCTrCH information | | | | RBS1-1969 |
| - DL TFCS Identity | | | | RBS1-1970 |
| - TFCS ID | | 2 | | RBS1-1971 |
| - Shared Channel Indicator | | FALSE | | RBS1-1972 |
| - CHOICE DL parameters | | SameAsUL | | RBS1-1973 |
| - UL DCH TFCS Identity | | | | RBS1-1974 |
| - TFCS ID | | 1 | | RBS1-1975 |
| - Shared Channel Indicator | | FALSE | | RBS1-1976 |
| DL Transport channel information common for all transport channel | A3, A4, A5, A6 | | | RBS1-1977 |
| | A10 | | Rel-5 | RBS1-1978 |
| | , A11, A12, A14, A16, A17 | | Rel-7 | RBS1-1979 |
| | , A21, A22 | | Rel-8 | RBS1-1980 |
| - SCCPCH TFCS | | Not Present | | RBS1-1981 |
| - CHOICE mode | | TDD | | RBS1-1982 |
| - Individual DL CCTrCH information | | | | RBS1-1983 |
| - DL TFCS Identity | | | | RBS1-1984 |
| - TFCS ID | | 2 | | RBS1-1985 |
| - Shared Channel Indicator | | FALSE | | RBS1-1986 |
| - CHOICE DL parameters | | Independent | | RBS1-1987 |
| - DL TFCS | | | | RBS1-1988 |
| - CHOICE TFCI Signalling | | Normal | | RBS1-1989 |
| - TFCI Field 1 Information | | | | RBS1-1990 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS1-1991 |

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| - TFCS complete reconfiguration information | | | | RBS1-1992 |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RBS1-1993 |
| - CTFC information | | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 | | RBS1-1994 |
| - CTFC | | Reference to clause 6.11.5.4 Parameter Set | | RBS1-1995 |
| - Power offset information | | Not Present | | RBS1-1996 |
| DL Transport channel information common for all transport channel | A9 | | Rel-5 | RBS1-1997 |
| - SCCPCH TFCS | | Not Present | | RBS1-1998 |
| - CHOICE mode | | TDD | | RBS1-1999 |
| - Individual DL CCTrCH information | | | | RBS1-2000 |
| - DL TFCS Identity | | | | RBS1-2001 |
| - TFCS ID | | 2 | | RBS1-2002 |
| - Shared Channel Indicator | | FALSE | | RBS1-2003 |
| - CHOICE DL parameters | | Explicit | | RBS1-2004 |
| - DL DCH TFCS | | | | RBS1-2005 |
| - CHOICE TFCI Signalling | | Normal | | RBS1-2006 |
| - TFCI Field 1 Information | | | | RBS1-2007 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS1-2008 |
| - TFCS complete reconfigure | | | | RBS1-2009 |
| - CHOICE CTFC Size | | ctfc2bit | | RBS1-2010 |
| - CTFC information | | | | RBS1-2011 |
| - CTFC | | 0 ((DL DCH RAB, DCCH)=(TF0, TF0)) | | RBS1-2012 |
| - Power offset information | | Not Present | | RBS1-2013 |
| - CTFC | | 1 ((DL DCH RAB, DCCH)=(TF0, TF1)) | | RBS1-2014 |
| - Power offset information | | Not Present | | RBS1-2015 |
| DL Transport channel information common for all transport channel | A13, A15, A16a | Not Present | Rel-7 | RBS1-2016 |
| | , A18, A19, A20, A23, A24 | | Rel-8 | RBS1-2017 |
| Deleted TrCH information list | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-2018 |
| | , A9, A10 | | Rel-5 | RBS1-2019 |
| | , A11, A12, A16, A17, | | Rel-7 | RBS1-2020 |
| | A18, A19, A20, A21, A22, A24 | | Rel-8 | RBS1-2021 |
| Deleted DL TrCH information | A13, A15, A16a | | Rel-7 | RBS1-2022 |
| | , A23 | | Rel-8 | RBS1-2023 |
| - Downlink transport channel type | | DCH | | RBS1-2024 |
| - DL Transport channel identity | | 10 | | RBS1-2025 |
| Added or Reconfigured TrCH information list | A1 | 1 DCH added, 1 DCH reconfigured | | RBS1-2026 |
| - Added or Reconfigured DL TrCH information | | | | RBS1-2027 |
| - Downlink transport channel type | | DCH | | RBS1-2028 |
| - DL Transport channel identity | | 10 | | RBS1-2029 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2030 |
| - Uplink transport channel type | | DCH | | RBS1-2031 |
| - UL TrCH identity | | 5 | | RBS1-2032 |
| - DCH quality target | | | | RBS1-2033 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2034 |
| - Downlink transport channel type | | DCH | | RBS1-2035 |
| - DL Transport channel identity | | 6 | | RBS1-2036 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2037 |

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| - Uplink transport channel type | | DCH | | RBS1-2038 |
| - UL TrCH identity | | 1 | | RBS1-2039 |
| - DCH quality target | | | | RBS1-2040 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2041 |
| Added or Reconfigured TrCH information list | A3, A4, A5, A6, A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBS1-2042 |
| - Added or Reconfigured DL TrCH information | | | | RBS1-2043 |
| - Downlink transport channel type | | DCH | | RBS1-2044 |
| - DL Transport channel identity | | 10 | | RBS1-2045 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2046 |
| - Uplink transport channel type | | DCH | | RBS1-2047 |
| - UL TrCH identity | | 5 | | RBS1-2048 |
| - DCH quality target | | | | RBS1-2049 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2050 |
| - Downlink transport channel type | | DCH | | RBS1-2051 |
| - DL Transport channel identity | | 6 | | RBS1-2052 |
| - CHOICE DL parameters | | Explicit | | RBS1-2053 |
| - TFS | | | | RBS1-2054 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2055 |
| - Dynamic transport format information | | | | RBS1-2056 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2057 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2058 |
| - Transmission Time Interval | | Not Present | | RBS1-2059 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2060 |
| - Semi-static Transport Format information | | | | RBS1-2061 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2062 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2063 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2064 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2065 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2066 |
| - DCH quality target | | | | RBS1-2067 |
| - Transparent mode signalling info | | Not Present | | RBS1-2068 |
| Added or Reconfigured TrCH information list | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS1-2069 |
| - Added or Reconfigured DL TrCH information | | | | RBS1-2070 |
| - Downlink transport channel type | | DCH | | RBS1-2071 |
| - DL Transport channel identity | | 10 | | RBS1-2072 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2073 |
| - Uplink transport channel type | | DCH | | RBS1-2074 |
| - UL TrCH identity | | 5 | | RBS1-2075 |
| - DCH quality target | | | | RBS1-2076 |
| - Transparent mode signalling info | | Not Present | | RBS1-2077 |
| - Downlink transport channel type | | DCH | | RBS1-2078 |
| - DL Transport channel identity | | 6 | | RBS1-2079 |
| - CHOICE DL parameters | | Explicit | | RBS1-2080 |
| - TFS | | | | RBS1-2081 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2082 |
| - Dynamic transport format information | | | | RBS1-2083 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2084 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2085 |
| - Transmission Time Interval | | Not Present | | RBS1-2086 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2087 |
| - Semi-static Transport Format information | | | | RBS1-2088 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2089 |

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| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2090 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2091 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2092 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2093 |
| - DCH quality target | | | | RBS1-2094 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2095 |
| - Downlink transport channel type | | DCH | | RBS1-2096 |
| - DL Transport channel identity | | 7 | | RBS1-2097 |
| - CHOICE DL parameters | | Explicit | | RBS1-2098 |
| - TFS | | | | RBS1-2099 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2100 |
| - Dynamic transport format information | | | | RBS1-2101 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2102 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2103 |
| - Transmission Time Interval | | Not Present | | RBS1-2104 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2105 |
| - Semi-static Transport Format information | | | | RBS1-2106 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2107 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2108 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2109 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2110 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2111 |
| - DCH quality target | | | | RBS1-2112 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2113 |
| - Downlink transport channel type | | DCH | | RBS1-2114 |
| - DL Transport channel identity | | 8 | | RBS1-2115 |
| - CHOICE DL parameters | | Explicit | | RBS1-2116 |
| - TFS | | | | RBS1-2117 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2118 |
| - Dynamic transport format information | | | | RBS1-2119 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2120 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2121 |
| - Transmission Time Interval | | Not Present | | RBS1-2122 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2123 |
| - Semi-static Transport Format information | | | | RBS1-2124 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2125 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2126 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2127 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2128 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2129 |
| - DCH quality target | | | | RBS1-2130 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2131 |
| Added or Reconfigured DL TrCH information | A9,A10 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-5 | RBS1-2132 |
| | , A11 | | Rel-7 | RBS1-2133 |
| - Downlink transport channel type | | DCH | | RBS1-2134 |

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| - DL Transport channel identity | | 10 | | RBS1-2135 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2136 |
| - Uplink transport channel type | | DCH | | RBS1-2137 |
| - UL TrCH identity | | 5 | | RBS1-2138 |
| - DCH quality target | | | | RBS1-2139 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2140 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2141 |
| - DL Transport channel identity | | Not Present | | RBS1-2142 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2143 |
| - HARQ Info | | | | RBS1-2144 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2145 |
| - CHOICE Memory Partitioning | | Implicit | | RBS1-2146 |
| - Added or reconfigured MAC-d flow | | | | RBS1-2147 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBS1-2148 |
| - MAC-hs queue Id | | 0 | | RBS1-2149 |
| - MAC-d Flow Identity | | 0 | | RBS1-2150 |
| - T1 | | 120 | | RBS1-2151 |
| - MAC-hs window size | | 16 | | RBS1-2152 |
| - MAC-d PDU size Info | | | | RBS1-2153 |
| - MAC-d PDU size | | 336 | | RBS1-2154 |
| - MAC-d PDU size index | | 0 | | RBS1-2155 |
| - MAC-hs queue to delete list | | Not present | | RBS1-2156 |
| - DCH quality target | | Not present | | RBS1-2157 |
| Added or Reconfigured DL TrCH information | A12 | 2 TrCHs (DCH for DCCH and HS- DSCH for DTCH) | Rel-7 | RBS1-2158 |
| - Downlink transport channel type | | DCH | | RBS1-2159 |
| - DL Transport channel identity | | 10 | | RBS1-2160 |
| - CHOICE DL parameters | | Explicit | | RBS1-2161 |
| - TFS | | | | RBS1-2162 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2163 |
| - Dynamic transport format information | | | | RBS1-2164 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2165 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2166 |
| - Transmission Time Interval | | Not Present | | RBS1-2167 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2168 |
| - Semi-static Transport Format information | | | | RBS1-2169 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2170 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2171 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2172 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2173 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2174 |
| - DCH quality target | | | | RBS1-2175 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2176 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2177 |
| - DL Transport channel identity | | Not Present | | RBS1-2178 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2179 |
| - HARQ Info | | | | RBS1-2180 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2181 |
| - CHOICE Memory Partitioning | | Implicit | | RBS1-2182 |
| - Added or reconfigured MAC-d flow | | | | RBS1-2183 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBS1-2184 |
| - MAC-hs queue Id | | 0 | | RBS1-2185 |
| - MAC-d Flow Identity | | 0 | | RBS1-2186 |
| - T1 | | 120 | | RBS1-2187 |

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| - MAC-hs window size | | 16 | | RBS1-2188 |
| - MAC-d PDU size Info | | | | RBS1-2189 |
| - MAC-d PDU size | | 336 | | RBS1-2190 |
| - MAC-d PDU size index | | 0 | | RBS1-2191 |
| - MAC-hs queue to delete list | | Not present | | RBS1-2192 |
| - DCH quality target | | Not present | | RBS1-2193 |
| Added or Reconfigured DL TrCH information | A13 | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-7 | RBS1-2194 |
| | A19, A20 | | Rel-8 | RBS1-2195 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2196 |
| - DL Transport channel identity | | Not Present | | RBS1-2197 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2198 |
| - HARQ Info | | | | RBS1-2199 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2200 |
| - CHOICE Memory Partitioning | | Implicit | | RBS1-2201 |
| - Added or reconfigured MAC-d flow | | | | RBS1-2202 |
| - MAC-hs queue to add or reconfigure list | | (two queue) | | RBS1-2203 |
| - MAC-hs queue Id | | 0(for DTCH) | | RBS1-2204 |
| - MAC-d Flow Identity | | 0 | | RBS1-2205 |
| - T1 | | 120 | | RBS1-2206 |
| - MAC-hs window size | | 16 | | RBS1-2207 |
| - MAC-d PDU size Info | | | | RBS1-2208 |
| - MAC-d PDU size | | 336 | | RBS1-2209 |
| - MAC-d PDU size index | | 0 | | RBS1-2210 |
| - MAC-hs queue Id | | 1(for DCCH) | | RBS1-2211 |
| - MAC-d Flow Identity | | 1 | | RBS1-2212 |
| - T1 | | 120 | | RBS1-2213 |
| - MAC-hs window size | | 16 | | RBS1-2214 |
| - MAC-d PDU size Info | | | | RBS1-2215 |
| - MAC-d PDU size | | 148 | | RBS1-2216 |
| - MAC-d PDU size index | | 0 | | RBS1-2217 |
| - MAC-hs queue to delete list | | Not present | | RBS1-2218 |
| - DCH quality target | | Not present | | RBS1-2219 |
| Added or Reconfigured DL TrCH information | A14 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 | RBS1-2220 |
| | | | | |
| - Downlink transport channel type | | DCH | | RBS1-2221 |
| - DL Transport channel identity | | 10 | | RBS1-2222 |
| - CHOICE DL parameters | | Explicit | | RBS1-2223 |
| - TFS | | | | RBS1-2224 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2225 |
| - Dynamic transport format information | | | | RBS1-2226 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2227 |
| - Number of TBs and TTI List | | (This IE is repeated for TF number.) | | RBS1-2228 |
| - Transmission Time Interval | | Not Present | | RBS1-2229 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2230 |
| - Semi-static Transport Format information | | | | RBS1-2231 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2232 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2233 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2234 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2235 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2236 |
| - DCH quality target | | | | RBS1-2237 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2238 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2239 |
| - DL Transport channel identity | | Not Present | | RBS1-2240 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2241 |

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| - HARQ Info | | | | RBS1-2242 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2243 |
| - CHOICE Memory Partitioning | | Implicit | | RBS1-2244 |
| - Added or reconfigured MAC-d flow | | | | RBS1-2245 |
| - MAC-hs queue to add or reconfigure list | | (two queue) | | RBS1-2246 |
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS1-2247 |
| - MAC-d Flow Identity | | 0 | | RBS1-2248 |
| - T1 | | 120 | | RBS1-2249 |
| - MAC-hs window size | | 16 | | RBS1-2250 |
| - MAC-d PDU size Info | | | | RBS1-2251 |
| - MAC-d PDU size | | 336 | | RBS1-2252 |
| - MAC-d PDU size index | | 0 | | RBS1-2253 |
| - MAC-hs queue Id | | 2 (for second DTCH) | | RBS1-2254 |
| - MAC-d Flow Identity | | 2 | | RBS1-2255 |
| - T1 | | 120 | | RBS1-2256 |
| - MAC-hs window size | | 16 | | RBS1-2257 |
| - MAC-d PDU size Info | | | | RBS1-2258 |
| - MAC-d PDU size | | 336 | | RBS1-2259 |
| - MAC-d PDU size index | | 0 | | RBS1-2260 |
| - MAC-hs queue to delete list | | Not present | | RBS1-2261 |
| - DCH quality target | | Not present | | RBS1-2262 |
| Added or Reconfigured DL TrCH information | A15 | 1 TrCH (HS-DSCH for 2 DTCH and DCCH) | Rel-7 | RBS1-2263 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2264 |
| - DL Transport channel identity | | Not Present | | RBS1-2265 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2266 |
| - HARQ Info | | | | RBS1-2267 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2268 |
| - CHOICE Memory Partitioning | | Implicit | | RBS1-2269 |
| - Added or reconfigured MAC-d flow | | | | RBS1-2270 |
| - MAC-hs queue to add or reconfigure list | | (three queue) | | RBS1-2271 |
| - MAC-hs queue Id | | 0 (for first DTCH) | | RBS1-2272 |
| - MAC-d Flow Identity | | 0 | | RBS1-2273 |
| - T1 | | 120 | | RBS1-2274 |
| - MAC-hs window size | | 16 | | RBS1-2275 |
| - MAC-d PDU size Info | | | | RBS1-2276 |
| - MAC-d PDU size | | 336 | | RBS1-2277 |
| - MAC-d PDU size index | | 0 | | RBS1-2278 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RBS1-2279 |
| - MAC-d Flow Identity | | 1 | | RBS1-2280 |
| - T1 | | 120 | | RBS1-2281 |
| - MAC-hs window size | | 16 | | RBS1-2282 |
| - MAC-d PDU size Info | | | | RBS1-2283 |
| - MAC-d PDU size | | 148 | | RBS1-2284 |
| - MAC-d PDU size index | | 0 | | RBS1-2285 |
| - MAC-hs queue Id | | 3 (for second DTCH) | | RBS1-2286 |
| - MAC-d Flow Identity | | 3 | | RBS1-2287 |
| - T1 | | 120 | | RBS1-2288 |
| - MAC-hs window size | | 16 | | RBS1-2289 |
| - MAC-d PDU size Info | | | | RBS1-2290 |
| - MAC-d PDU size | | 112 | | RBS1-2291 |
| - MAC-d PDU size index | | 0 | | RBS1-2292 |
| - MAC-d PDU size | | 144 | | RBS1-2293 |
| - MAC-d PDU size index | | 1 | | RBS1-2294 |
| - MAC-d PDU size | | 160 | | RBS1-2295 |
| - MAC-d PDU size index | | 2 | | RBS1-2296 |
| - MAC-d PDU size | | 176 | | RBS1-2297 |
| - MAC-d PDU size index | | 3 | | RBS1-2298 |
| - MAC-d PDU size | | 192 | | RBS1-2299 |
| - MAC-d PDU size index | | 4 | | RBS1-2300 |
| - MAC-d PDU size | | 224 | | RBS1-2301 |

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| - MAC-d PDU size index | | 5 | | RBS1-2302 |
| - MAC-d PDU size | | 296 | | RBS1-2303 |
| - MAC-d PDU size index | | 6 | | RBS1-2304 |
| - MAC-d PDU size | | 344 | | RBS1-2305 |
| - MAC-d PDU size index | | 7 | | RBS1-2306 |
| - MAC-hs queue to delete list | | Not present | | RBS1-2307 |
| - DCH quality target | | Not present | | RBS1-2308 |
| Added or Reconfigured DL TrCH information | A16, A17 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7 | RBS1-2309 |
| | , A21 | | Rel-8 | RBS1-2310 |
| - Downlink transport channel type | | DCH | | RBS1-2311 |
| - DL Transport channel identity | | 10 | | RBS1-2312 |
| - CHOICE DL parameters | | Same as UL | | RBS1-2313 |
| - Uplink transport channel type | | DCH | | RBS1-2314 |
| - UL TrCH identity | | 5 | | RBS1-2315 |
| - DCH quality target | | | | RBS1-2316 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2317 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2318 |
| - DL Transport channel identity | | Not Present | | RBS1-2319 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2320 |
| - HARQ Info | | | | RBS1-2321 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2322 |
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2323 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2324 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2325 |
| - MAC-ehs queue to add or reconfigure list | | (one queue) | | RBS1-2326 |
| - MAC-ehs queue Id | | 0 | | RBS1-2327 |
| - T1 | | 50 | | RBS1-2328 |
| - MAC-ehs window size | | 16 | | RBS1-2329 |
| - MAC-ehs queue to delete list | | Not present | | RBS1-2330 |
| - DCH quality target | | Not present | | RBS1-2331 |
| Added or Reconfigured DL TrCH information | A16a | 1 TrCH (HS-DSCH for DTCH and DCCH) | | RBS1-2332 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2333 |
| - DL Transport channel identity | | Not Present | | RBS1-2334 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2335 |
| - HARQ Info | | | | RBS1-2336 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2337 |
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2338 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2339 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2340 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS1-2341 |
| - MAC-ehs queue Id | | 0 (for DTCH) | | RBS1-2342 |
| - T1 | | 50 | | RBS1-2343 |
| - MAC-ehs window size | | 16 | | RBS1-2344 |
| - MAC-ehs queue Id | | 1 (for DCCH) | | RBS1-2345 |
| - T1 | | 50 | | RBS1-2346 |
| - MAC-hs window size | | 16 | | RBS1-2347 |
| - MAC-ehs queue to delete list | | Not present | | RBS1-2348 |
| - DCH quality target | | Not present | | RBS1-2349 |
| Added or Reconfigured DL TrCH information list | A18 | 1 TrCH (HS-DSCH for DCCH and DTCH) | Rel-8 | RBS1-2350 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2351 |
| - DL Transport channel identity | | Not Present | | RBS1-2352 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2353 |
| - HARQ Info | | | | RBS1-2354 |
| - Number of Processes | | Reference to clause 6.11 Parameter Set | | RBS1-2355 |

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|--|-----------|--|---------|-----------|
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2356 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2357 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2358 |
| - MAC-ehs queue to add or reconfigure list | | (two queue) | | RBS1-2359 |
| - MAC-ehs queue Id | | 0 (for DCCH) | | RBS1-2360 |
| - T1 | | 50 | | RBS1-2361 |
| - MAC-ehs window size | | 16 | | RBS1-2362 |
| - MAC-ehs queue Id | | 1 (for DTCH) | | RBS1-2363 |
| - T1 | | 50 | | RBS1-2364 |
| - MAC-ehs window size | | 16 | | RBS1-2365 |
| - DCH quality target | | Not present | | RBS1-2366 |
| Added or Reconfigured DL TrCH information | A22 | DCH for DCCH and HS-DSCH for 3 DTCHs | Rel-8 | RBS1-2367 |
| - Downlink transport channel type | | DCH | | RBS1-2368 |
| - DL Transport channel identity | | 10 | | RBS1-2369 |
| - CHOICE DL parameters | | Explicit | | RBS1-2370 |
| - TFS | | | | RBS1-2371 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-2372 |
| - Dynamic Transport format information | | | | RBS1-2373 |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS1-2374 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS1-2375 |
| - Transmission Time Interval | | Not Present | | RBS1-2376 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS1-2377 |
| - CHOICE Logical channel list | | All | | RBS1-2378 |
| - Semi-static Transport Format information | | | | RBS1-2379 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS1-2380 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS1-2381 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS1-2382 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS1-2383 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS1-2384 |
| - DCH quality target | | | | RBS1-2385 |
| - BLER Quality value | | -20 (-2.0) | | RBS1-2386 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2387 |
| - DL Transport channel identity | | Not Present | | RBS1-2388 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2389 |
| - HARQ Info | | | | RBS1-2390 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2391 |
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2392 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2393 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2394 |
| - MAC-ehs queue to add or reconfigure list | | (three queues) | | RBS1-2395 |
| | | | | RBS1-2396 |
| - MAC-ehs queue Id | | 2 (for first DTCH) | | RBS1-2397 |
| - T1 | | 50 | | RBS1-2398 |
| - MAC-ehs window size | | 16 | | RBS1-2399 |
| - MAC-ehs queue Id | | 3 (for second DTCH) | | RBS1-2400 |
| - T1 | | 50 | | RBS1-2401 |
| - MAC-ehs window size | | 16 | | RBS1-2402 |
| - MAC-ehs queue Id | | 4 (for third DTCH) | | RBS1-2403 |
| - T1 | | 50 | | RBS1-2404 |
| - MAC-ehs window size | | 16 | | RBS1-2405 |
| - DCH quality target | | Not present | | RBS1-2406 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|---------|------------|
| Added or Reconfigured DL TrCH information | A23 | HS-DSCH for 2 DTCHs and DCCH | Rel-8 | RBS1-2407 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2408 |
| - DL Transport channel identity | | Not Present | | RBS1-2409 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2410 |
| - HARQ Info | | | | RBS1-2411 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2412 |
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2413 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2414 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2415 |
| - MAC-ehs queue to add or reconfigure list | | (two queues) | | RBS1-2416 |
| - MAC-ehs queue Id | | 0 (for first DTCH) | | RBS1-2417 |
| - T1 | | 50 | | RBS1-2418 |
| - MAC-ehs window size | | 16 | | RBS1-2419 |
| - MAC-ehs queue Id | | 1 (for DCCH) | | RBS1-2420 |
| - T1 | | 50 | | RBS1-2421 |
| - MAC-ehs window size | | 16 | | RBS1-2422 |
| - DCH quality target | | Not present | | RBS1-2423 |
| Added or Reconfigured DL TrCH information | A24 | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-8 | RBS1-2424 |
| - Downlink transport channel type | | HS-DSCH | | RBS1-2425 |
| - DL Transport channel identity | | Not Present | | RBS1-2426 |
| - CHOICE DL parameters | | HS-DSCH | | RBS1-2427 |
| - HARQ Info | | | | RBS1-2428 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RBS1-2429 |
| - CHOICE <i>Memory Partitioning</i> | | Implicit | | RBS1-2430 |
| - CHOICE <i>DL MAC header type</i> | | MAC-ehs | | RBS1-2431 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RBS1-2432 |
| - MAC-hs queue to add or reconfigure list | | (two queues) | | RBS1-2433 |
| - MAC-ehs queue Id | | 2 (for DTCH) | | RBS1-2434 |
| - T1 | | 50 | | RBS1-2435 |
| - MAC-ehs window size | | 16 | | RBS1-2436 |
| - MAC-ehs queue Id | | 3 (for DCCH) | | RBS1-2437 |
| - T1 | | 50 | | RBS1-2438 |
| - MAC-hs window size | | 16 | | RBS1-2439 |
| - MAC-ehs queue to delete list | | Not present | | RBS1-2440 |
| - DCH quality target | | Not present | | RBS1-2441 |
| Frequency info | A1, A2, A3, A4, A5, A7, A8 , A9, A10 , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24 | | | RBS1-2442 |
| - Choice mode | | TDD | Rel-5 | RBS1-2443 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | Rel-7 | RBS1-2444 |
| - Choice mode | | TDD | Rel-8 | RBS1-2445 |
| - Choice mode | | TDD | | RBS1-2446 |
| - UARFCN (Nt) | | Reference to clause 5.1 Test frequencies | | RBS1-2447 |
| Frequency info | A6 | Not Present | | RBS1-2448 |
| Multi-frequency Info | | Not Present | Rel-7 | RBS1-2448a |
| Control Channel DRX information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, | Not Present | Rel-8 | RBS1-2448b |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|-----------------------------------|---------|-----------|
| | A14, A15, A16, A16a, A17, A19, A22, A23, A24 | | | |
| Control Channel DRX information | , A20 | | Rel-8 | RBS1-2449 |
| - CHOICE <i>Control Channel DRX operation</i> | | New Control Channel DRX operation | | RBS1-2450 |
| - HS-SCCH DRX information | | | | RBS1-2451 |
| - HS-SCCH DRX cycle | | 8 | | RBS1-2452 |
| - Inactivity Threshold for HS-SCCH DRX cycle | | 16 | | RBS1-2453 |
| - HS-SCCH DRX Offset | | 0 | | RBS1-2454 |
| - E-AGCH DRX Information | | | | RBS1-2455 |
| - CHOICE <i>E-AGCH DRX information type</i> | | Same as HS-SCCH | | RBS1-2456 |
| - Enabling Delay | | 32 | | RBS1-2457 |
| SPS Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A16a, A17, A20, A22, A23, A24 | Not Present | Rel-8 | RBS1-2458 |
| SPS Information | , A19 | | Rel-8 | RBS1-2459 |
| - E-DCH SPS information | | | | RBS1-2460 |
| - CHOICE <i>E-DCH SPS operation</i> | | New E-DCH SPS operation | | RBS1-2461 |
| - E-HICH Information | | | | RBS1-2462 |
| - CHOICE Configuration Mode | | Implicit | | RBS1-2463 |
| - EI | | 0 | | RBS1-2464 |
| - Signature Sequence Group Index | | 0 | | RBS1-2465 |
| - Transmission Pattern List | | 2 Transmission Patterns | | RBS1-2466 |
| - Repetition period | | 4 | | RBS1-2467 |
| - Repetition length | | 1 | | RBS1-2468 |
| - Repetition period | | 8 | | RBS1-2469 |
| - Repetition length | | 1 | | RBS1-2470 |
| - HS-DSCH SPS information | | | | RBS1-2471 |
| - CHOICE <i>HS-DSCH SPS operation</i> | | New HS-DSCH SPS operation | | RBS1-2472 |
| - Transport Block Size List | | 2 | | RBS1-2473 |
| - Transport Block Size Index | | 5 | | RBS1-2474 |
| - Transport Block Size Index | | 20 | | RBS1-2475 |
| - Receive Pattern List | | 2 Receive Patterns | | RBS1-2476 |
| - Repetition period | | 4 | | RBS1-2477 |
| - Repetition length | | 1 | | RBS1-2478 |
| - Repetition period | | 8 | | RBS1-2479 |
| - Repetition length | | 1 | | RBS1-2480 |
| - HARQ Info for Semi-Persistent Scheduling | | | | RBS1-2481 |
| - Number of Processes | | 4 | | RBS1-2482 |
| - Process Memory size | | 16000 | | RBS1-2483 |
| - HS-SICH List | | 1 | | RBS1-2484 |
| - CHOICE Configuration Mode | | Implicit | | RBS1-2485 |
| - HS-SCCH Index | | 0 | | RBS1-2486 |
| MIMO parameters | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17 | Not Present | Rel-8 | RBS1-2487 |
| MIMO parameters | , A21 | start | Rel-8 | RBS1-2488 |
| - CHOICE mode | | TDD | | RBS1-2489 |
| - CHOICE TDD option | | 1.28Mcps TDD | | RBS1-2490 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|---|---------|-----------|
| - MIMO SF Mode for HS-PDSCH dual stream | | SF1, | | RBS1-2491 |
| - HS-SICH Reference Signal Info | | Not Present | | RBS1-2492 |
| MU-MIMO info | | Not Present | Rel-10 | |
| Maximum allowed UL TX power | A1, A2, A3, A4, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24 | 33dBm | | RBS1-2493 |
| | | | Rel-5 | RBS1-2494 |
| | | | Rel-7 | RBS1-2495 |
| | | | Rel-8 | RBS1-2496 |
| Maximum allowed UL TX power | A5, A6 | Not Present | | RBS1-2497 |
| CHOICE <i>channel requirement</i> | A5, A6 | Not Present | | RBS1-2498 |
| CHOICE <i>channel requirement</i> | A1, A2, A3, A4, A7, A8, A9, A10, A16, A17, A21 | Uplink DPCH info | | RBS1-2499 |
| | | | Rel-5 | RBS1-2500 |
| | | | Rel-7 | RBS1-2501 |
| | | | | RBS1-2502 |
| - Uplink DPCH power control info | | | | RBS1-2503 |
| - CHOICE mode | | TDD | | RBS1-2504 |
| - UL target SIR | | 25 dB | | RBS1-2505 |
| - CHOICE <i>UL OL PC info</i> | | | | RBS1-2507 |
| - Broadcast UL OL PC info | | Null | | RBS1-2508 |
| - Uplink Timing Advance Control | | This IE is not present, except when the message is used for inter-RAT handover, in which case the content is specified below. | | RBS1-2509 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-------------------------------|---|---------|-----------|
| - CHOICE Timing Advance | | Enabled | | RBS1-2510 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2511 |
| - Uplink synchronisation parameters | | | | RBS1-2512 |
| - Uplink synchronisation step size | | 1 | | RBS1-2513 |
| - Uplink synchronisation frequency | | 1 | | RBS1-2514 |
| - Synchronisation parameters | | | | RBS1-2515 |
| - SYNC_UL codes bitmap | | '11111111'B | | RBS1-2516 |
| - FPACH info | | | | RBS1-2517 |
| - timeslot | | 0 | | RBS1-2518 |
| - channelisationCode | | cc16_15 | | RBS1-2519 |
| - midambleShiftAndBurstType | | | | RBS1-2520 |
| - midambleAllocationMode | | NULL | | RBS1-2521 |
| - midambleConfiguration | | 4 | | RBS1-2522 |
| - Wi | | 4 | | RBS1-2523 |
| - PRXUpPCHdes | | 15 | | RBS1-2524 |
| - SYNC_UL procedure | | | | RBS1-2525 |
| - Max SYNC_UL Transmissions | | 8 | | RBS1-2526 |
| - Mmax | | 2 | | RBS1-2527 |
| - UL CCTrCH List | | | | RBS1-2528 |
| - TFCS ID | | 1 | | RBS1-2529 |
| - UL Target SIR | | 25 dB | | RBS1-2530 |
| - Time info | | | | RBS1-2531 |
| - Activation time | | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBS1-2532 |
| - Duration | | Infinite | | RBS1-2533 |
| - Common timeslot info | | | | RBS1-2534 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBS1-2535 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBS1-2536 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBS1-2537 |
| - Repetition period | | 1 | | RBS1-2538 |
| - Repetition length | | | | RBS1-2539 |
| - Uplink DPCH timeslots and code | | | | RBS1-2540 |
| - Dynamic SF usage | | FALSE | | RBS1-2541 |
| - First individual timeslot info | | | | RBS1-2542 |
| - Timeslot number | | | | RBS1-2543 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2544 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBS1-2545 |
| - TFCI existence | | TRUE | | RBS1-2546 |
| - Midamble shift and burst type | | | | RBS1-2547 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2548 |
| - Midamble allocation mode | | Default midamble | | RBS1-2549 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2550 |
| - Midamble Shift | | Not Present | | RBS1-2551 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2552 |
| - Modulation | | QPSK | | RBS1-2553 |
| - SS-TPC Symbols | | 1 | | RBS1-2554 |
| - Additional TPC-SS Symbols | | Not present | | RBS1-2555 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS1-2556 |
| - channelisation codes | | (SF / i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBS1-2557 |
| - CHOICE more timeslots | | No more timeslots | | RBS1-2558 |
| - UL CCTrCH List to Remove | | Not present | | RBS1-2559 |
| Uplink DPCH info | A11, A12, A13, A14, A15, A16a | Uplink DPCH info | Rel-7 | RBS1-2560 |
| | A19, A20, A22, A23, A24 | | Rel-8 | RBS1-2561 |
| - Uplink DPCH power control info | | | | RBS1-2562 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-----------|---|---------|-----------|
| - CHOICE mode | | TDD | | RBS1-2563 |
| - UL target SIR | | 25 dB | | RBS1-2564 |
| - CHOICE UL OL PC info | | | | RBS1-2565 |
| - Broadcast UL OL PC info | | Null | | RBS1-2566 |
| - Uplink Timing Advance Control | | This IE is not present, except when the message is used for inter-RAT handover, in which case the content is specified below. | | RBS1-2567 |
| - CHOICE Timing Advance | | Enabled | | RBS1-2568 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2569 |
| - Uplink synchronisation parameters | | | | RBS1-2570 |
| - Uplink synchronisation step size | | 1 | | RBS1-2571 |
| - Uplink synchronisation frequency | | 1 | | RBS1-2572 |
| - Synchronisation parameters | | | | RBS1-2573 |
| - SYNC_UL codes bitmap | | '11111111'B | | RBS1-2574 |
| - FPACH info | | | | RBS1-2575 |
| - timeslot | | 0 | | RBS1-2576 |
| - channelisationCode | | cc16_15 | | RBS1-2577 |
| - midambleShiftAndBurstType | | | | RBS1-2578 |
| - midambleAllocationMode | | NULL | | RBS1-2579 |
| - midambleConfiguration | | 4 | | RBS1-2580 |
| - wi | | 4 | | RBS1-2581 |
| - PRX _{UpPCHdes} | | 15 | | RBS1-2582 |
| - SYNC_UL procedure | | | | RBS1-2583 |
| - Max SYNC_UL Transmissions | | 8 | | RBS1-2584 |
| - Mmax | | 2 | | RBS1-2585 |
| - UL CCTrCH List | | | | RBS1-2586 |
| - TFCS ID | | 1 | | RBS1-2587 |
| - UL Target SIR | | 25 dB | | RBS1-2588 |
| - Time info | | | | RBS1-2589 |
| - Activation time | | $(256 + CFN - (CFN \text{ MOD } 8 + 8)) \text{ MOD } 256$ | | RBS1-2590 |
| - Duration | | Infinite | | RBS1-2591 |
| - Common timeslot info | | | | RBS1-2592 |
| - 2nd interleaving mode | | Default value is "Frame" | | RBS1-2593 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBS1-2594 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBS1-2595 |
| - Repetition period | | 1 | | RBS1-2596 |
| - Repetition length | | 1 | | RBS1-2597 |
| - Uplink DPCH timeslots and code | | | | RBS1-2598 |
| - Dynamic SF usage | | FALSE | | RBS1-2599 |
| - First individual timeslot info | | | | RBS1-2600 |
| - Timeslot number | | | | RBS1-2601 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2602 |
| - Timeslot number | | 1 OR 2 OR 3 | | RBS1-2603 |
| - TFCI existence | | TRUE | | RBS1-2604 |
| - Midamble shift and burst type | | | | RBS1-2605 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2606 |
| - Midamble allocation mode | | Default midamble | | RBS1-2607 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2608 |
| - Midamble Shift | | Not Present | | RBS1-2609 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2610 |
| - Modulation | | QPSK | | RBS1-2611 |
| - SS-TPC Symbols | | 1 | | RBS1-2612 |
| - Additional TPC-SS Symbols | | Not present | | RBS1-2613 |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS1-2614 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBS1-2615 |
| - CHOICE more timeslots | | No more timeslots | | RBS1-2616 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------|------------------|---------|-----------|
| - UL CCTrCH List to Remove | | Not present | | RBS1-2617 |
| E-DCH Info | A11, A12, A13, A14, A15, A16a | | Rel-7 | RBS1-2618 |
| | , A18, A19, A20, A22, A23, A24 | | Rel-8 | RBS1-2619 |
| - MAC-es/e reset indicator | | TRUE | | RBS1-2620 |
| - CHOICE mode | | TDD | | RBS1-2621 |
| - E-RUCCH info | | | | RBS1-2622 |
| - CHOICE TDD mode | | 1.28 Mcps TDD | | RBS1-2623 |
| - T-RUCCH | | 200 | | RBS1-2624 |
| - N-RUCCH | | 3 | | RBS1-2625 |
| - T-WAIT | | 40 | | RBS1-2626 |
| - T-SI | | 40 | | RBS1-2627 |
| - Extended Estimation Window | | Not present | | RBS1-2628 |
| - PRACH Information | | Not present | | RBS1-2629 |
| - E-PUCH info | | | | RBS1-2630 |
| - E-TFCS information | | | | RBS1-2631 |
| - Reference Beta Information QPSK list | | | | RBS1-2632 |
| - Reference Code Rate | | 2 | | RBS1-2633 |
| - Reference Beta | | -10 | | RBS1-2634 |
| - Reference Code Rate | | 8 | | RBS1-2635 |
| - Reference Beta | | -3 | | RBS1-2636 |
| - Reference Beta Information 16QAM list | | | | RBS1-2637 |
| - Reference Code Rate | | 2 | | RBS1-2638 |
| - Reference Beta | | -5 | | RBS1-2639 |
| - Reference Code Rate | | 8 | | RBS1-2640 |
| - Reference Beta | | 2 | | RBS1-2641 |
| - CHOICE TDD mode | | 1.28 Mcps TDD | | RBS1-2642 |
| - SNPL Reporting Type | | type1 | | RBS1-2643 |
| - PRXdes_base | | -112 | | RBS1-2644 |
| - Beacon PL Est | | FALSE | | RBS1-2645 |
| - TPC step size | | 1 | | RBS1-2646 |
| - Uplink synchronisation parameters | | Not present | | RBS1-2647 |
| - E-PUCH TS configuration list | | | | RBS1-2648 |
| - TS number | | 3 | | RBS1-2649 |
| - Midamble shift and burst type | | | | RBS1-2650 |
| - Midamble Allocation Mode | | Default midamble | | RBS1-2651 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2652 |
| - Midamble Shift | | Not Present | | RBS1-2653 |
| - Minimum allowed code rate | | 0 | | RBS1-2654 |
| - Maximum allowed code rate | | 63 | | RBS1-2655 |
| - Power Offset for Scheduling Info | | Not Present | | RBS1-2656 |
| - Non-scheduled transmission grant info | A11, A16a | Not Present | | RBS1-2657 |
| | , A19, A20, A22, A23, A24 | | Rel-8 | RBS1-2658 |
| - Non-scheduled transmission grant info | A12, A13, A14, A15 | | | RBS1-2659 |
| - CHOICE TDD Option | | 1.28 Mcps TDD | | RBS1-2660 |
| - NE-UCCH | | 1 | | RBS1-2661 |
| - NE-HICH | | 4 | | RBS1-2662 |
| - Timeslot Resource Related Information | | 00100 | | RBS1-2663 |
| - Power Resource Related Information | | 1 | | RBS1-2664 |
| - Activation Time | | 0 | | RBS1-2665 |
| - Subframe number | | 0 | | RBS1-2666 |
| - Repetition period and length | | | | RBS1-2667 |
| - Repetition period | | 2 | | RBS1-2668 |
| - Repetition Length | | 1 | | RBS1-2669 |
| - Code Resource Information | | 8/1 | | RBS1-2670 |
| - E-HICH Information | | | | RBS1-2671 |
| - Timeslot number | | 6 | | RBS1-2672 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|------------------|---------|-----------|
| - Channelisation code | | 16/15 | | RBS1-2673 |
| - Midamble Allocation mode | | Default midamble | | RBS1-2674 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2675 |
| - Signature Sequence Group Index | | 0 | | RBS1-2676 |
| Multi-carrier E-DCH Info for LCR TDD | | Not Present | Rel-10 | RBS1-2677 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 | TDD | | RBS1-2678 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | Rel-5 | RBS1-2680 |
| Downlink HS-PDSCH Information | A9, A10 | | Rel-5 | RBS1-2681 |
| | , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24 | | Rel-7 | RBS1-2682 |
| | | | Rel-8 | RBS1-2683 |
| - HS-SCCH Info | | | | RBS1-2684 |
| - CHOICE mode | | TDD | | RBS1-2685 |
| - CHOICE TDD option | | 1.28 Mcps | | RBS1-2686 |
| - HS-SCCH Set Configuration | | | | RBS1-2687 |
| - Timeslot number | | 6 | | RBS1-2688 |
| - First Channelisation code | | (16/11) | | RBS1-2689 |
| - Second Channelisation code | | (16/12) | | RBS1-2690 |
| - Midamble Allocation mode | | Default midamble | | RBS1-2691 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2692 |
| - BLER target | | -2.0 | | RBS1-2693 |
| - HS-SICH configuration | | | | RBS1-2694 |
| - Timeslot number | | 1 | | RBS1-2695 |
| - Channelisation code | | (16/13) | | RBS1-2696 |
| - Midamble Allocation mode | | Default midamble | | RBS1-2697 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2698 |
| - Ack-Nack Power Offset | | 0 | | RBS1-2699 |
| - PRX _{HS-SICH} | | -120 | | RBS1-2700 |
| - TPC step size | | 1dB | | RBS1-2701 |
| - CHOICE mode | | TDD | | RBS1-2702 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2703 |
| - HS-PDSCH Midamble Configuration | | | | RBS1-2704 |
| - Midamble Allocation Mode | | Default midamble | | RBS1-2705 |
| - Midamble Configuration | | 8 (k=16) | | RBS1-2706 |
| - Midamble Shift | | Not present | | RBS1-2707 |
| Downlink information common for all radio links | A5, A6, A18 | Not Present | | RBS1-2708 |
| | | | Rel-8 | RBS1-2709 |
| Downlink information common for all radio links | A1, A2, A3 | | | RBS1-2710 |
| - Downlink DPCH info common for all RL | | | | RBS1-2711 |
| - Timing indication | | Maintain | | RBS1-2712 |
| - CFN-targetSFN frame offset | | Not Present | | RBS1-2713 |
| - Downlink DPCH power control information | | | | RBS1-2714 |
| - CHOICE mode | | TDD | | RBS1-2715 |
| - TPC Step Size | | 1 | | RBS1-2716 |
| - MAC-d HFN initial value | | Not Present | | RBS1-2717 |
| - CHOICE mode | | TDD | | RBS1-2718 |
| - CHOICE mode | | TDD | | RBS1-2719 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2720 |
| - TSTD indicator | | FALSE | | RBS1-2721 |
| - Default DPCH Offset Value | | Not Present | | RBS1-2722 |
| Downlink information common for all radio links | A9 | | Rel-5 | RBS1-2723 |
| | , A11, A12, A14, A15, | | Rel-7 | RBS1-2724 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------------------|-----------------|---------|-----------|
| | A16, A17 | | | |
| | , A21, A22 | | Rel-8 | RBS1-2725 |
| - Downlink DPCH info common for all RL | | | | RBS1-2726 |
| - Timing indication | | Maintain | | RBS1-2727 |
| - CFN-targetSFN frame offset | | Not Present | | RBS1-2728 |
| - Downlink DPCH power control information | | | | RBS1-2729 |
| - CHOICE mode | | TDD | | RBS1-2730 |
| - TPC Step Size | | 1 | | RBS1-2731 |
| - MAC-d HFN initial value | | Not Present | | RBS1-2732 |
| - CHOICE mode | | TDD | | RBS1-2733 |
| - CHOICE mode | | TDD | | RBS1-2734 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2735 |
| - TSTD indicator | | FALSE | | RBS1-2736 |
| - Default DPCH Offset Value | | Not Present | | RBS1-2737 |
| - MAC-hs reset indicator | | TRUE | | RBS1-2738 |
| Downlink information common for all radio links | A4, A7, A8 | | | RBS1-2739 |
| - Downlink DPCH info common for all RL | | | | RBS1-2740 |
| - Timing indication | | Initialize | | RBS1-2741 |
| - CFN-targetSFN frame offset | | Not Present | | RBS1-2742 |
| - Downlink DPCH power control information | | | | RBS1-2743 |
| - CHOICE mode | | TDD | | RBS1-2744 |
| - TPC Step Size | | 1 | | RBS1-2745 |
| - MAC-d HFN initial value | | Not Present | | RBS1-2746 |
| - CHOICE mode | | TDD | | RBS1-2747 |
| - CHOICE mode | | TDD | | RBS1-2748 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2749 |
| - TSTD indicator | | FALSE | | RBS1-2750 |
| - Default DPCH Offset Value | | | | RBS1-2751 |
| - CHOICE mode | | TDD | | RBS1-2752 |
| - Default DPCH Offset Value | | 0 Integer(0..7) | | RBS1-2753 |
| Downlink information common for all radio links | A10 | | Rel-5 | RBS1-2754 |
| - Downlink DPCH info common for all RL | | | | RBS1-2755 |
| - Timing indication | | Initialize | | RBS1-2756 |
| - CFN-targetSFN frame offset | | Not Present | | RBS1-2757 |
| - Downlink DPCH power control information | | | | RBS1-2758 |
| - CHOICE mode | | TDD | | RBS1-2759 |
| - TPC Step Size | | 1 | | RBS1-2760 |
| - MAC-d HFN initial value | | Not Present | | RBS1-2761 |
| - CHOICE mode | | TDD | | RBS1-2762 |
| - CHOICE mode | | TDD | | RBS1-2763 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2764 |
| - TSTD indicator | | FALSE | | RBS1-2765 |
| - Default DPCH Offset Value | | Not Present | | RBS1-2766 |
| - MAC-hs reset indicator | | TRUE | | RBS1-2767 |
| Downlink information common for all radio links | A13, A15, A16a | | Rel-7 | RBS1-2768 |
| | , A19, A20, A23, A24 | | Rel-8 | RBS1-2769 |
| - Downlink DPCH info common for all RL | | | | RBS1-2770 |
| - Timing indication | | Maintain | | RBS1-2771 |
| - Timing maintained Synchronization indicator | | FALSE | | RBS1-2772 |
| - Downlink DPCH power control information | | | | RBS1-2773 |
| - CHOICE mode | | TDD | | RBS1-2774 |
| - TPC Step Size | | 1 | | RBS1-2775 |
| - CHOICE mode | | TDD | | RBS1-2776 |
| - CHOICE mode | | TDD | | RBS1-2777 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2778 |
| - TSTD indicator | | FALSE | | RBS1-2779 |
| - Default DPCH Offset Value | | Not Present | | RBS1-2780 |
| - MAC-hs reset indicator | | Not Present | | RBS1-2781 |
| Downlink information per radio link list | A1, A2, A3, A4, A7, A8 | | | RBS1-2782 |
| | , A9, A10 | | Rel-5 | RBS1-2783 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-------------------------------|---|--------------------|-----------|
| | , A16, A17 | | Rel-7 | RBS1-2784 |
| | , A21 | | | RBS1-2785 |
| - Downlink information for each radio link | | | | RBS1-2786 |
| - Choice mode | | TDD | | RBS1-2787 |
| - Primary CCPCH info | | | | RBS1-2788 |
| - Choice mode | | TDD | | RBS1-2789 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBS1-2790 |
| - TSTD indicator | | FALSE | | RBS1-2791 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | RBS1-2792 |
| - SCTD indicator | | FALSE | | RBS1-2793 |
| - Downlink DPCH info for each RL | | | | RBS1-2794 |
| - CHOICE mode | | TDD | | RBS1-2795 |
| - DL CCTrCh List | | | | RBS1-2796 |
| - TFCS ID | | 2 Integer(1.8) | | RBS1-2797 |
| - Time info | | | | RBS1-2798 |
| - Activation time | | Now | | RBS1-2799 |
| - Duration | | Infinite | | RBS1-2800 |
| - Common timeslot info | | | | RBS1-2801 |
| - 2 nd interleaving mode | | Default value is "Frame" | | RBS1-2802 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBS1-2803 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBS1-2804 |
| - Repetition period | | 1 | | RBS1-2805 |
| - Repetition length | | NULL | | RBS1-2806 |
| - Downlink DPCH timeslots and codes | | | | RBS1-2807 |
| - First individual timeslot info | | | | RBS1-2808 |
| - Timeslot number | | | | RBS1-2809 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2810 |
| - Timeslot number | | 4 OR 5 OR 6 | | RBS1-2811 |
| - TFCI existence | | TRUE | | RBS1-2812 |
| - Midamble shift and burst type | | | | RBS1-2813 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2814 |
| - Midamble allocation mode | | Default midamble | | RBS1-2815 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2816 |
| - Midamble Shift | | Not Present | | RBS1-2817 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2818 |
| - Modulation | | QPSK | | RBS1-2819 |
| - SS-TPC Symbols | | 1 | | RBS1-2820 |
| - Additional TPC-SS Symbols | | Not present | | RBS1-2821 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS1-2822 |
| - CHOICE codes representation | | | | RBS1-2823 |
| - Channelisation codes bitmap | | Reference to clause 6.11 Parameter Set | | RBS1-2824 |
| - CHOICE more timeslots | | No more timeslots | | RBS1-2825 |
| - UL CCTrCH TPC List | | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | RBS1-2826 |
| - UL TPC TFCS Identity | | | | RBS1-2827 |
| - TFCS ID | | 1 | | RBS1-2828 |
| - Shared Channel Indicator | | FALSE | | RBS1-2829 |
| - DL CCTrCH List to Remove | | Not present | | RBS1-2830 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBS1-2831 |
| - E-AGCH Info | | Not Present | Rel-6 | RBS1-2832 |
| - CHOICE mode | | TDD | Rel-7 | RBS1-2833 |
| - E-HICH Information | | Not Present | Rel-7 | RBS1-2834 |
| Downlink information per radio link list | A11, A12, A13, A14, A15, A16a | | Rel-7 | RBS1-2835 |
| | , A19, A20, A22, A23, | | Rel-8 | RBS1-2836 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|---------|-----------|
| | A24 | | | |
| - Downlink information for each radio link | | | | RBS1-2837 |
| - Choice mode | | TDD | | RBS1-2838 |
| - Primary CCPCH info | | | | RBS1-2839 |
| - Choice mode | | TDD | | RBS1-2840 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBS1-2841 |
| - TSTD indicator | | FALSE | | RBS1-2842 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | RBS1-2843 |
| - SCTD indicator | | FALSE | | RBS1-2844 |
| - Downlink DPCH info for each RL | | | | RBS1-2845 |
| - CHOICE mode | | TDD | | RBS1-2846 |
| - DL CCTrCh List | | | | RBS1-2847 |
| - TFCS ID | | 2 Integer(1.8) | | RBS1-2848 |
| - Time info | | | | RBS1-2849 |
| - Activation time | | Now | | RBS1-2850 |
| - Duration | | Infinite | | RBS1-2851 |
| - Common timeslot info | | | | RBS1-2852 |
| - 2nd interleaving mode | | Default value is "Frame" | | RBS1-2853 |
| - TFCI coding | | Reference to clause 6 Parameter set | | RBS1-2854 |
| - Puncturing limit | | Reference to clause 6 Parameter set | | RBS1-2855 |
| - Repetition period | | 1 | | RBS1-2856 |
| - Repetition length | | NULL | | RBS1-2857 |
| - Downlink DPCH timeslots and codes | | | | RBS1-2858 |
| - First individual timeslot info | | | | RBS1-2859 |
| - Timeslot number | | | | RBS1-2860 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2861 |
| - Timeslot number | | 4 OR 5 OR 6 | | RBS1-2862 |
| - TFCI existence | | TRUE | | RBS1-2863 |
| - Midamble shift and burst type | | | | RBS1-2864 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2865 |
| - Midamble allocation mode | | Default midamble | | RBS1-2866 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2867 |
| - Midamble Shift | | Not Present | | RBS1-2868 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RBS1-2869 |
| - Modulation | | QPSK | | RBS1-2870 |
| - SS-TPC Symbols | | 1 | | RBS1-2871 |
| - Additional TPC-SS Symbols | | Not present | | RBS1-2872 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS1-2873 |
| - CHOICE codes representation | | | | RBS1-2874 |
| - Channelisation codes bitmap | | Reference to clause 6.11 Parameter Set | | RBS1-2875 |
| - CHOICE more timeslots | | No more timeslots | | RBS1-2876 |
| - UL CCTrCH TPC List | | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | RBS1-2877 |
| - UL TPC TFCS Identity | | | | RBS1-2878 |
| - TFCS ID | | 1 | | RBS1-2879 |
| - Shared Channel Indicator | | FALSE | | RBS1-2880 |
| - DL CCTrCH List to Remove | | Not present | | RBS1-2881 |
| - E-AGCH Info | | | | RBS1-2882 |
| - CHOICE mode | | TDD | | RBS1-2883 |
| - CHOICE TDD Option | | 1.28 Mcps TDD | | RBS1-2884 |
| - RDI Indicator | | FALSE | | RBS1-2885 |
| - TPC step size | | 1 | | RBS1-2886 |
| - E-AGCH set configuration | | | | RBS1-2887 |
| - Timeslot number | | 6 | | RBS1-2888 |
| - First Channelisation code | | 16/13 | | RBS1-2889 |
| - Second Channelisation code | | 16/14 | | RBS1-2890 |
| - Midamble Allocation mode | | Default midamble | | RBS1-2891 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2892 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|---|--------------------|-----------|
| - Midamble Shift | | Not Present | | RBS1-2893 |
| - E-AGCH BLER target | | -0.05 | | RBS1-2894 |
| - CHOICE <i>mode</i> | | TDD | | RBS1-2895 |
| - CHOICE <i>TDD Option</i> | | 1.28 Mcps TDD | | RBS1-2896 |
| - N _{E-HICH} | | 15 | | RBS1-2897 |
| - E-HICH set configuration | | | | RBS1-2898 |
| - EI | | 2 | | RBS1-2899 |
| - Timeslot number | | 6 | | RBS1-2900 |
| - Channelisation code | | 16/15 | | RBS1-2901 |
| - Midamble Allocation mode | | Default midamble | | RBS1-2902 |
| - Midamble configuration | | 8 (k=16) | | RBS1-2903 |
| - Midamble Shift | | Not Present | | RBS1-2904 |
| Downlink information per radio link list | A5 | | | RBS1-2905 |
| - Downlink information for each radio link | | | | RBS1-2906 |
| - Choice mode | | TDD | | RBS1-2907 |
| - Primary CCPCH info | | | | RBS1-2908 |
| - Choice mode | | TDD | | RBS1-2909 |
| - Choice TDD Option | | 1.28 Mcps TDD | | RBS1-2910 |
| - TSTD indicator | | FALSE | | RBS1-2911 |
| - Cell parameters ID | | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) | | RBS1-2912 |
| - SCTD indicator | | FALSE | | RBS1-2913 |
| - Downlink DPCH info for each RL | | Not Present | | RBS1-2914 |
| - SCCPCH Information for FACH | | Not Present | R99 and Rel-4 only | RBS1-2915 |
| - E-AGCH Info | | Not Present | Rel-6 | RBS1-2916 |
| - CHOICE <i>mode</i> | | TDD | Rel-7 | RBS1-2917 |
| - E-HICH Information | | Not Present | Rel-7 | RBS1-2918 |
| Downlink information per radio link list | A6, A18 | Not Present | | RBS1-2919 |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present | | RBS1-2921 |
| | A9, A10 | | Rel-5 | RBS1-2922 |
| | A11, A12, A13, A14, A15, A16, A16a, A17, A19, A20, A21, A22, A23, A24 | | Rel-7 | RBS1-2923 |
| | | | Rel-8 | RBS1-2924 |
| CELL_DCH measurement occasion info LCR | | Not Present | Rel-9 | RBS1-2925 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE need for "Non speech to CELL_DCH from CELL_DCH in CS" | |
| A2 | This IE need for "Speech to CELL_DCH from CELL_DCH in CS" | |
| A3 | This IE need for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE need for "Non speech to CELL_DCH from CELL_FACH in CS" | |
| A8 | This IE need for "Speech to CELL_DCH from CELL_FACH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS" | Rel-5 |
| A11 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH" | Rel-7 |
| A12 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-7 |

| | | |
|------|--|-------|
| A13 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A14 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-7 |
| A15 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7 |
| A16 | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM" | Rel-7 |
| A16a | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)" | Rel-7 |
| A17 | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC UM" | Rel-7 |
| A18 | This IE is needed for "Packet to CELL_FACH from CELL_FACH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-8 |
| A19 | This IE is needed for " Packet to CELL_DCH / E-DCH / HS-DSCH with SPS operation" | Rel-8 |
| A20 | This IE is needed for " Packet to CELL_DCH / E-DCH / HS-DSCH with Control Channel DRX operation " | Rel-8 |
| A21 | This IE is needed for "Packet to CELL_DCH / HS-DSCH with MIMO" | Rel-8 |
| A22 | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) with multiple RABs (three streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/DCH" | Rel-8 |
| A23 | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-8 |
| A24 | This IE is needed for "AM Packet to CELL_DCH from Enhanced CELL_FACH in PS with SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH(MAC-ehs)" | Rel-8 |

| Condition | Explanation | Version |
|-------------|--|---------|
| MAC-I-FIXED | Used with other condition when MAC-i/is with Fixed RLC PDU size is configured | Rel-8 |
| MAC-I-FLEX | Used with other condition when MAC-i/is with Flexible RLC PDU size is configured | Rel-8 |

Contents of RADIO BEARER SETUP message: AM or UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---|--|---|----------------|--|
| Message Type | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | | Rel-5 Rel-6 | RBS7-001 RBS7-002 RBS7-003 RBS7-004 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS7-005 RBS7-006 |
| Integrity check info - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS7-007 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS7-008 |
| Integrity protection mode info | | Not Present | | RBS7-009 |
| Ciphering mode info | | Not Present | | RBS7-010 |
| Activation time | A1, A2, A3, A11, A9 | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | Rel-5 Rel-6 | RBS7-011 RBS7-012 RBS7-013 |
| Activation time | A4, A5, A6, A7, A8, A10 | Not Present | Rel-5 | RBS7-014 RBS7-015 |
| New U-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-016 RBS7-017 RBS7-018 |
| New C-RNTI | A1, A2, A3, A4, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-019 RBS7-020 RBS7-021 |
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|--|---------|----------------------------------|
| New DSCH-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | | RBS7-022 |
| New H-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | Rel-5 | RBS7-023 |
| New H-RNTI | A9, A10 | '1010 1010 1010 1010' | Rel-5 | RBS7-024 |
| CHOICE mode | A12, A13, A14, A15 | TDD | Rel-6 | RBS7-025 |
| | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 | | Rel-7 | RBS7-026 |
| - New E-RNTI | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 | Not Present | Rel-7 | RBS7-027 RBS7-028 |
| RRC State indicator | A1, A2, A3, A4, A7, A8, A11, A9, A10 | CELL_DCH | | RBS7-029 |
| RRC State indicator | A5, A6 | CELL_FACH | Rel-5 | RBS7-030 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-6 | RBS7-031 RBS7-032 RBS7-033 |
| CN information info | | Not Present | | RBS7-034 |
| URA identity | | Not Present | | RBS7-035 |
| CHOICE Specification mode | | Complete specification | | RBS7-036 |
| - Signalling RB information to setup | | Not Present | Rel-6 | RBS7-037 RBS7-038 RBS7-039 |
| - RAB information for setup | A1, A7 | | | RBS7-040 |
| - RAB info | | 0000 0001B | | RBS7-041 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS7-042 |
| - CN domain identity | | CS domain | | RBS7-043 |
| - NAS Synchronization Indicator | | Not Present | | RBS7-044 |
| - Re-establishment timer | | useT314 | | RBS7-045 |
| - RB information to setup | | | | RBS7-046 |
| - RB identity | | 10 | | RBS7-047 |
| - PDCP info | | Not Present | | RBS7-048 |
| - CHOICE RLC info type | | RLC info | | RBS7-049 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS7-050 |
| - Transmission RLC discard | | Not Present | | RBS7-051 |
| - Segmentation indication | | FALSE | | RBS7-052 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS7-053 |
| - Segmentation indication | | FALSE | | RBS7-054 |
| - RB mapping info | | | | RBS7-055 |
| - Information for each multiplexing option | | | | RBS7-056 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-057 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-058 |
| - Uplink transport channel type | | DCH | | RBS7-059 |
| - UL Transport channel identity | | 1 | | RBS7-060 |
| - Logical channel identity | | Not Present | | RBS7-061 |
| - CHOICE RLC size list | | Configured | | RBS7-062 |
| - MAC logical channel priority | | 7 | | RBS7-063 |
| - Downlink RLC logical channel info | | | | RBS7-064 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-065 |
| - Downlink transport channel type | | DCH | | RBS7-066 |
| - DL DCH Transport channel identity | | 6 | | RBS7-067 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-068 |
| - Logical channel identity | | Not Present | | RBS7-069 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|--|
| - RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard | A2, A8 | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. CS domain Not Present useT314 10 Not Present RLC info TM RLC Not Present | | RBS7-070 RBS7-071 RBS7-072 RBS7-073 RBS7-074 RBS7-075 RBS7-076 RBS7-077 RBS7-078 RBS7-079 RBS7-080 RBS7-081 |
| - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type | | FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 6 1 DCH 6 Not Present Not Present 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 2 Not Present Configured 6 1 DCH | | RBS7-082 RBS7-083 RBS7-084 RBS7-085 RBS7-086 RBS7-087 RBS7-088 RBS7-089 RBS7-090 RBS7-091 RBS7-092 RBS7-093 RBS7-094 RBS7-095 RBS7-096 RBS7-097 RBS7-098 RBS7-099 RBS7-100 RBS7-101 RBS7-102 RBS7-103 RBS7-104 RBS7-105 RBS7-106 RBS7-107 RBS7-108 RBS7-109 RBS7-110 RBS7-111 RBS7-112 RBS7-113 RBS7-114 RBS7-115 RBS7-116 RBS7-117 RBS7-118 RBS7-119 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------|--|---------|----------|
| - DL DCH Transport channel identity | | 7 | | RBS7-120 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-121 |
| - Logical channel identity | | Not Present | | RBS7-122 |
| - RB identity | | 12 | | RBS7-123 |
| - PDCP info | | Not Present | | RBS7-124 |
| - CHOICE RLC info type | | RLC info | | RBS7-125 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS7-126 |
| - Transmission RLC discard | | Not Present | | RBS7-127 |
| - Segmentation indication | | FALSE | | RBS7-128 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS7-129 |
| - Segmentation indication | | FALSE | | RBS7-130 |
| - RB mapping info | | | | RBS7-131 |
| - Information for each multiplexing option | | | | RBS7-132 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-133 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-134 |
| - Uplink transport channel type | | DCH | | RBS7-135 |
| - UL Transport channel identity | | 3 | | RBS7-136 |
| - Logical channel identity | | Not Present | | RBS7-137 |
| - CHOICE RLC size list | | Configured | | RBS7-138 |
| - MAC logical channel priority | | 6 | | RBS7-139 |
| - Downlink RLC logical channel info | | | | RBS7-140 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-141 |
| - Downlink transport channel type | | DCH | | RBS7-142 |
| - DL DCH Transport channel identity | | 8 | | RBS7-143 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-144 |
| - Logical channel identity | | Not Present | | RBS7-145 |
| - RAB information for setup | A3, A4, A5, A6 | | | RBS7-146 |
| - RAB info | | (AM DTCH for PS domain) | | RBS7-147 |
| - RAB identity | | 0000 0101B | | RBS7-148 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS7-149 |
| - NAS Synchronization Indicator | | Not Present | | RBS7-150 |
| - Re-establishment timer | | useT315 | | RBS7-151 |
| - RB information to setup | | | | RBS7-152 |
| - RB identity | | 20 | | RBS7-153 |
| - PDCP info | | | | RBS7-154 |
| - Support for lossless SRNS relocation | | FALSE | | RBS7-155 |
| - Max PDCP SN window size | | Not present | | RBS7-156 |
| - PDCP PDU header | | Absent | | RBS7-157 |
| - Header compression | | Not present | | RBS7-158 |
| - CHOICE RLC info type | | RLC info | | RBS7-159 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS7-160 |
| - Transmission RLC discard | | | | RBS7-161 |
| - CHOICE SDU discard mode | | No Discard | | RBS7-162 |
| - MAX_DAT | | 15 | | RBS7-163 |
| - Transmission window size | | 128 | | RBS7-164 |
| - Timer_RST | | 500 | | RBS7-165 |
| - Max_RST | | 4 | | RBS7-166 |
| - Polling info | | | | RBS7-167 |
| - Timer_poll_prohibit | | 200 | | RBS7-168 |
| - Timer_poll | | 200 | | RBS7-169 |
| - Poll_PDU | | Not Present | | RBS7-170 |
| - Poll_SDU | | 1 | | RBS7-171 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - Last transmission PDU poll | | TRUE | | RBS7-172 |
| - Last retransmission PDU poll | | TRUE | | RBS7-173 |
| - Poll_Windows | | 99 | | RBS7-174 |
| - Timer_poll_periodic | | Not Present | | RBS7-175 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS7-176 |
| - In-sequence delivery | | TRUE | | RBS7-177 |
| - Receiving window size | | 128 | | RBS7-178 |
| - Downlink RLC status info | | | | RBS7-179 |
| - Timer_status_prohibit | | 200 | | RBS7-180 |
| - Timer_EPC | | Not Present | | RBS7-181 |
| - Missing PDU indicator | | TRUE | | RBS7-182 |
| - Timer_STATUS_periodic | | Not Present | | RBS7-183 |
| - RB mapping info | | | | RBS7-184 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RBS7-185 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-186 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-187 |
| - Uplink transport channel type | | DCH | | RBS7-188 |
| - UL Transport channel identity | | 1 | | RBS7-189 |
| - Logical channel identity | | Not Present | | RBS7-190 |
| - CHOICE RLC size list | | Configured | | RBS7-191 |
| - MAC logical channel priority | | 8 | | RBS7-192 |
| - Downlink RLC logical channel info | | | | RBS7-193 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-194 |
| - Downlink transport channel type | | DCH | | RBS7-195 |
| - DL DCH Transport channel identity | | 6 | | RBS7-196 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-197 |
| - Logical channel identity | | Not Present | | RBS7-198 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-199 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-200 |
| - Uplink transport channel type | | RACH | | RBS7-201 |
| - UL Transport channel identity | | Not Present | | RBS7-202 |
| - Logical channel identity | | 7 | | RBS7-203 |
| - CHOICE RLC size list | | Explicit list | | RBS7-204 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS7-205 |
| - MAC logical channel priority | | 8 | | RBS7-206 |
| - Downlink RLC logical channel info | | | | RBS7-207 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-208 |
| - Downlink transport channel type | | FACH | | RBS7-209 |
| - DL DCH Transport channel identity | | Not Present | | RBS7-210 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-211 |
| - Logical channel identity | | 7 | | RBS7-212 |
| - RAB information for setup | A9 | | Rel-5 | RBS7-213 |
| - RAB info | | (high-speed AM DTCH for PS domain) | | RBS7-214 |
| - RAB identity | | 0000 0101B | | RBS7-215 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS7-216 |
| - NAS Synchronization Indicator | | Not Present | | RBS7-217 |
| - Re-establishment timer | | useT315 | | RBS7-218 |
| - RB information to setup | | | | RBS7-219 |
| - RB identity | | 25 | | RBS7-220 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-----------|-------------------------------------|---------|----------|
| - PDCP info | | FALSE | | RBS7-221 |
| | | | | RBS7-222 |
| relocation | | | | |
| - Max PDCP SN window size | | Not present | | RBS7-223 |
| - PDCP PDU header | | Absent | | RBS7-224 |
| - Header compression | | Not present | | RBS7-225 |
| information | | | | |
| - CHOICE RLC info type | | RLC info | | RBS7-226 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS7-227 |
| - Transmission RLC discard | | | | RBS7-228 |
| - CHOICE SDU discard mode | | No Discard | | RBS7-229 |
| - MAX_DAT | | 15 | | RBS7-230 |
| - Transmission window size | | 128 | | RBS7-231 |
| - Timer_RST | | 500 | | RBS7-232 |
| - Max_RST | | 4 | | RBS7-233 |
| - Polling info | | | | RBS7-234 |
| - Timer_poll_prohibit | | 100 | | RBS7-235 |
| - Timer_poll | | 100 | | RBS7-236 |
| - Poll_PDU | | Not Present | | RBS7-237 |
| - Poll_SDU | | 1 | | RBS7-238 |
| - Last transmission PDU poll | | TRUE | | RBS7-239 |
| - Last retransmission PDU poll | | TRUE | | RBS7-240 |
| - Poll_Windows | | 99 | | RBS7-241 |
| - Timer_poll_periodic | | Not Present | | RBS7-242 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS7-243 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RBS7-244 |
| Size | | | | |
| - In-sequence delivery | | TRUE | | RBS7-245 |
| - Receiving window size | | 768 | | RBS7-246 |
| - Downlink RLC status info | | | | RBS7-247 |
| - Timer_status_prohibit | | 100 | | RBS7-248 |
| - Timer_EPC | | Not Present | | RBS7-249 |
| - Missing PDU indicator | | TRUE | | RBS7-250 |
| - Timer_STATUS_periodic | | Not Present | | RBS7-251 |
| - One sided RLC re- | | FALSE | | RBS7-252 |
| establishment | | | | |
| - RB mapping info | | | | RBS7-253 |
| - Information for each multiplexing | | 3 RBMuxOptions | | RBS7-254 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RBS7-255 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS7-256 |
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS7-257 |
| - UL Transport channel identity | | 1 | | RBS7-258 |
| - Logical channel identity | | Not Present | | RBS7-259 |
| - CHOICE RLC size list | | Configured | | RBS7-260 |
| - MAC logical channel priority | | 8 | | RBS7-261 |
| - Downlink RLC logical channel | | | | RBS7-262 |
| info | | | | |
| - Number of downlink RLC | | 1 | | RBS7-263 |
| logical channels | | | | |
| - Downlink transport channel | | DCH | | RBS7-264 |
| type | | | | |
| - DL DCH Transport channel | | 6 | | RBS7-265 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS7-266 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | Not Present | | RBS7-267 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS7-268 |
| - RLC logical channel mapping | | Not Present | | RBS7-269 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS7-270 |
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS7-271 |
| - UL Transport channel identity | | 1 | | RBS7-272 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - Logical channel identity | | Not Present | | RBS7-273 |
| - CHOICE RLC size list | | Configured | | RBS7-274 |
| - MAC logical channel priority | | 8 | | RBS7-275 |
| - Downlink RLC logical channel info | | | | RBS7-276 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-277 |
| - Downlink transport channel type | | HS-DSCH | | RBS7-278 |
| - DL DCH Transport channel identity | | Not Present | | RBS7-279 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-280 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBS7-281 |
| - Logical channel identity | | Not Present | | RBS7-282 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-283 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-284 |
| - Uplink transport channel type | | RACH | | RBS7-285 |
| - UL Transport channel identity | | Not Present | | RBS7-286 |
| - Logical channel identity | | 7 | | RBS7-287 |
| - CHOICE RLC size list | | Explicit list | | RBS7-288 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS7-289 |
| - MAC logical channel priority | | 8 | | RBS7-290 |
| - Downlink RLC logical channel info | | | | RBS7-291 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-292 |
| - Downlink transport channel type | | FACH | | RBS7-293 |
| - DL DCH Transport channel identity | | Not Present | | RBS7-294 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-295 |
| - Logical channel identity | | 7 | | RBS7-296 |
| - RAB information for setup | A10 | (high-speed AM DTCH for PS domain) | Rel-5 | RBS7-297 |
| - RAB info | | 0000 0101B | | RBS7-298 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS7-299 |
| - CN domain identity | | PS domain | | RBS7-300 |
| - NAS Synchronization Indicator | | Not Present | | RBS7-301 |
| - Re-establishment timer | | useT315 | | RBS7-302 |
| - RB information to setup | | | | RBS7-303 |
| - RB identity | | 25 | | RBS7-304 |
| - PDCP info | | | | RBS7-305 |
| - Support for lossless SRNS relocation | | FALSE | | RBS7-306 |
| - Max PDCP SN window size | | Not present | | RBS7-307 |
| - PDCP PDU header | | Absent | | RBS7-308 |
| - Header compression information | | Not present | | RBS7-309 |
| - CHOICE RLC info type | | RLC info | | RBS7-310 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS7-311 |
| - Transmission RLC discard | | | | RBS7-312 |
| - CHOICE SDU discard mode | | No Discard | | RBS7-313 |
| - MAX_DAT | | 15 | | RBS7-314 |
| - Transmission window size | | 128 | | RBS7-315 |
| - Timer_RST | | 500 | | RBS7-316 |
| - Max_RST | | 4 | | RBS7-317 |
| - Polling info | | | | RBS7-318 |
| - Timer_poll_prohibit | | 100 | | RBS7-319 |
| - Timer_poll | | 100 | | RBS7-320 |
| - Poll_PDU | | Not Present | | RBS7-321 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|---------------------------------------|
| <ul style="list-style-type: none"> - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU Size <ul style="list-style-type: none"> - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - One sided RLC re-establishment option <ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option indicator <ul style="list-style-type: none"> - RLC logical channel mapping - Number of uplink RLC logical channels channels <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info logical channels <ul style="list-style-type: none"> - Number of downlink RLC logical channels type <ul style="list-style-type: none"> - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RAB information for setup | A11 | 1 | | RBS7-322 |
| | | TRUE | | RBS7-323 |
| | | TRUE | | RBS7-324 |
| | | 99 | | RBS7-325 |
| | | Not Present | | RBS7-326 |
| | | AM RLC | | RBS7-327 |
| | | Reference to clause 6 Parameter Set | | RBS7-328 |
| | | TRUE | | RBS7-329 |
| | | 768 | | RBS7-330 |
| | | | | RBS7-331 |
| | | 100 | | RBS7-332 |
| | | Not Present | | RBS7-333 |
| | | TRUE | | RBS7-334 |
| | | Not Present | | RBS7-335 |
| | | FALSE | | RBS7-336 |
| | | | | RBS7-337 |
| | | 1 RBMuxOption | | RBS7-338 |
| | | Not present | | RBS7-339 |
| | | 1 | | RBS7-340 |
| | | DCH | | RBS7-341 |
| | | 1 | | RBS7-342 |
| | | Not Present | | RBS7-343 |
| | | Configured | | RBS7-344 |
| | | 8 | | RBS7-345 |
| | | | | RBS7-346 |
| | | 1 | | RBS7-347 |
| | | HS-DSCH | | RBS7-348 |
| | | Not present | | RBS7-349 |
| | | Not present | | RBS7-350 |
| | | 0 | | RBS7-351 |
| | | Not Present | | RBS7-352 |
| | | | | RBS7-353 |
| | | - RAB info - RAB identity | | (AM DTCH for PS domain) 0000 0101B |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS7-355 |
| - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation | | PS domain | | RBS7-356 |
| | | Not Present | | RBS7-357 |
| | | useT315 | | RBS7-358 |
| | | 20 | | RBS7-359 |
| | | FALSE | | RBS7-360 |
| | | Not present | | RBS7-363 |
| | | Absent | | RBS7-364 |
| | | Not present | | RBS7-365 |
| information <ul style="list-style-type: none"> - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST | | RLC info | | RBS7-366 |
| | | AM RLC | | RBS7-367 |
| | | No Discard | | RBS7-368 |
| | | 15 | | RBS7-369 |
| | | 128 | | RBS7-370 |
| | | 500 | | RBS7-371 |

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| - Max_RST | | 4 | | RBS7-373 |
| - Polling info | | | | RBS7-374 |
| - Timer_poll_prohibit | | 200 | | RBS7-375 |
| - Timer_poll | | 200 | | RBS7-376 |
| - Poll_PDU | | Not Present | | RBS7-377 |
| - Poll_SDU | | 1 | | RBS7-378 |
| - Last transmission PDU poll | | TRUE | | RBS7-379 |
| - Last retransmission PDU poll | | TRUE | | RBS7-380 |
| - Poll_Windows | | 99 | | RBS7-381 |
| - Timer_poll_periodic | | Not Present | | RBS7-382 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS7-383 |
| - In-sequence delivery | | TRUE | | RBS7-384 |
| - Receiving window size | | 128 | | RBS7-385 |
| - Downlink RLC status info | | | | RBS7-386 |
| - Timer_status_prohibit | | 200 | | RBS7-387 |
| - Timer_EPC | | Not Present | | RBS7-388 |
| - Missing PDU indicator | | TRUE | | RBS7-389 |
| - Timer_STATUS_periodic | | Not Present | | RBS7-390 |
| - RB mapping info | | | | RBS7-391 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RBS7-392 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-393 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-394 |
| - Uplink transport channel type | | DCH | | RBS7-395 |
| - UL Transport channel identity | | 4 | | RBS7-396 |
| - Logical channel identity | | Not Present | | RBS7-397 |
| - CHOICE RLC size list | | Configured | | RBS7-398 |
| - MAC logical channel priority | | 8 | | RBS7-399 |
| - Downlink RLC logical channel info | | | | RBS7-400 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-401 |
| - Downlink transport channel type | | DCH | | RBS7-402 |
| - DL DCH Transport channel identity | | 9 | | RBS7-403 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-404 |
| - Logical channel identity | | Not Present | | RBS7-405 |
| - RLC logical channel mapping indicator | | Not Present | | RBS7-406 |
| - Number of uplink RLC logical channels | | 1 | | RBS7-407 |
| - Uplink transport channel type | | RACH | | RBS7-408 |
| - UL Transport channel identity | | Not Present | | RBS7-409 |
| - Logical channel identity | | 7 | | RBS7-410 |
| - CHOICE RLC size list | | Explicit list | | RBS7-411 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS7-412 |
| - MAC logical channel priority | | 8 | | RBS7-413 |
| - Downlink RLC logical channel info | | | | RBS7-414 |
| - Number of downlink RLC logical channels | | 1 | | RBS7-415 |
| - Downlink transport channel type | | FACH | | RBS7-416 |
| - DL DCH Transport channel identity | | Not Present | | RBS7-417 |
| - DL DSCH Transport channel identity | | Not Present | | RBS7-418 |
| - Logical channel identity | | 7 | | RBS7-419 |
| RB information to reconfigure list | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-420 RBS7-421 RBS7-422 |

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| RB information to be affected | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-423 RBS7-424 RBS7-425 |
| Downlink counter synchronization info | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-426 RBS7-427 RBS7-428 |
| PDCP ROHC target mode | A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-429 RBS7-430 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 | RBS7-431 RBS7-432 |
| <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - UL TFCS Identity - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling | | TDD | | RBS7-433 RBS7-434 RBS7-435 |
| <ul style="list-style-type: none"> - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size | | 1 FALSE | | RBS7-436 RBS7-437 RBS7-438 RBS7-439 |
| <ul style="list-style-type: none"> - TFCI information - CTFC - Power offset information - CHOICE Gain Factors | | Normal | R99 and Rel-4 only | RBS7-440 |
| <ul style="list-style-type: none"> - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size | | Complete reconfiguration | | RBS7-441 RBS7-442 RBS7-443 |
| <ul style="list-style-type: none"> - CTFC information - CTFC - Power offset information - CHOICE Gain Factors | | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set | | RBS7-444 RBS7-445 |
| <ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - CHOICE Gain Factors | | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBS7-446 RBS7-447 RBS7-448 |
| <ul style="list-style-type: none"> - CHOICE mode - Gain factor β_d | | 0 Integer(0.. 3) TDD Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBS7-449 RBS7-450 RBS7-451 |
| <ul style="list-style-type: none"> - CHOICE mode - Gain factor β_d | | TDD 8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBS7-452 RBS7-453 |
| <ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - TFC subset - TFC subset list | | 0 TDD Not Present Not Present | | RBS7-454 RBS7-455 RBS7-456 RBS7-457 |
| UL Transport channel information for all transport channels | | Not Present | Rel-6 | RBS7-458 |
| Deleted UL TrCH information | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present | Rel-5 Rel-6 | RBS7-459 RBS7-460 RBS7-461 RBS7-462 |
| <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information | A1, A3 A4, A5, A6, A7, A9, A10 | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH) DCH 1 | Rel-5 | RBS7-463 RBS7-464 RBS7-465 RBS7-466 RBS7-467 RBS7-468 |
| <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List | | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | RBS7-469 RBS7-470 |

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| - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format | | Not Present | | RBS7-471 |
| | | Reference to clause 6.11 Parameter Set All | | RBS7-472 RBS7-473 RBS7-474 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS7-475 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS7-476 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS7-477 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS7-478 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS7-479 |
| - Uplink transport channel type | | DCH | | RBS7-480 |
| - UL Transport channel identity | | 5 | | RBS7-481 |
| - TFS | | | | RBS7-482 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS7-483 |
| - Dynamic Transport format | | | | RBS7-484 |
| information | | | | |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS7-485 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS7-486 |
| - Transmission Time Interval | | Not Present | | RBS7-487 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS7-488 |
| - CHOICE Logical channel list | | All | | RBS7-489 |
| - Semi-static Transport Format | | | | RBS7-490 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS7-491 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS7-492 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS7-493 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS7-494 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS7-495 |
| Added or Reconfigured UL TrCH | A11 | 1 DCH added for DTCH | | RBS7-496 |
| information | | | | |
| - Uplink transport channel type | | DCH | | RBS7-497 |
| - UL Transport channel identity | | 4 | | RBS7-498 |
| - TFS | | | | RBS7-499 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS7-500 |
| - Dynamic Transport format | | | | RBS7-501 |
| information | | | | |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS7-502 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS7-503 |
| - Transmission Time Interval | | Not Present | | RBS7-504 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS7-505 |
| - CHOICE Logical channel list | | All | | RBS7-506 |
| - Semi-static Transport Format | | | | RBS7-507 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS7-508 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS7-509 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS7-510 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS7-511 |
| - CRC size | | Reference to clause 6.11 Parameter Set | | RBS7-512 |
| Added or Reconfigured UL TrCH | A2, A8 | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS7-513 |
| information | | | | |
| - Uplink transport channel type | | DCH | | RBS7-514 |
| - UL Transport channel identity | | 5 | | RBS7-515 |
| - TFS | | | | RBS7-516 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS7-517 |
| - Dynamic Transport format | | | | RBS7-518 |
| information | | | | |
| - RLC Size | | Reference to clause 6.11 Parameter Set | | RBS7-519 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS7-520 |
| - Transmission Time Interval | | Not Present | | RBS7-521 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RBS7-522 |
| - CHOICE Logical channel list | | All | | RBS7-523 |
| - Semi-static Transport Format | | | | RBS7-524 |
| information | | | | |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RBS7-525 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RBS7-526 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RBS7-527 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RBS7-528 |

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| <ul style="list-style-type: none"> - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information | | Reference to clause 6.11 Parameter Set DCH | | RBS7-529 | |
| | | 1 | | RBS7-530 | |
| | | Dedicated transport channels | | RBS7-531 | |
| | | | | RBS7-532 | |
| | | | | RBS7-533 | |
| | | | | RBS7-534 | |
| | | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | RBS7-535 | |
| | | Not Present | | RBS7-536 | |
| | | Reference to clause 6.11 Parameter Set All | | RBS7-537 | |
| | | | | RBS7-538 | |
| | | | | RBS7-539 | |
| | | | | RBS7-540 | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-541 | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-542 | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-543 | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-544 | |
| | | Reference to clause 6.11 Parameter Set DCH | | RBS7-545 | |
| 2 | RBS7-546 | | | | |
| | RBS7-547 | | | | |
| | RBS7-548 | | | | |
| Dedicated transport channels | RBS7-549 | | | | |
| | RBS7-550 | | | | |
| Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | RBS7-551 | | | | |
| Not Present | RBS7-552 | | | | |
| Reference to clause 6.11 Parameter Set All | RBS7-553 | | | | |
| | RBS7-554 | | | | |
| | RBS7-555 | | | | |
| | RBS7-556 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-557 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-558 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-559 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-560 | | | | |
| Reference to clause 6.11 Parameter Set DCH | RBS7-561 | | | | |
| 3 | RBS7-562 | | | | |
| | RBS7-563 | | | | |
| | RBS7-564 | | | | |
| Dedicated transport channels | RBS7-565 | | | | |
| | RBS7-566 | | | | |
| Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | RBS7-567 | | | | |
| Not Present | RBS7-568 | | | | |
| Reference to clause 6.11 Parameter Set All | RBS7-569 | | | | |
| | RBS7-570 | | | | |
| | RBS7-571 | | | | |
| | RBS7-572 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-573 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-574 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-575 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-576 | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-577 | | | | |
| DL Transport channel information common for all transport channel | A1, A2, A7, A8 | | | RBS7-578 | |
| - SCCPCH TFCS | | Not Present | | RBS7-579 | |
| - CHOICE mode | A3, A4, A5, A6, A11 A10 | TDD | Rel-5 Rel-6 | RBS7-580 | |
| - Individual DL CCTrCH information | | 1 CCTrCh | | RBS7-581 | |
| - DL TFCS identity | | 1 | | RBS7-582 | |
| - CHOICE DL parameters | | SameasUL | | RBS7-583 | |
| - UL DCH TFCS Identity | | 1 | | RBS7-584 | |
| DL Transport channel information common for all transport channel | | | | | RBS7-585 |
| | | | | | RBS7-586 |
| | | | | | RBS7-587 |
| | | | | | RBS7-588 |
| | | | | | RBS7-589 |

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| <ul style="list-style-type: none"> - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks <ul style="list-style-type: none"> - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute | | 6 Explicit Except for RAB with the symmetric DL and UL rate: Same as UL | | RBS7-644 RBS7-645 | | |
| | | | Dedicated transport channel | | RBS7-646 RBS7-647 RBS7-648 | |
| | | | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | RBS7-649 RBS7-650 | |
| | | | Not Present | | RBS7-651 | |
| | | | Reference to clause 6.11 Parameter Set only including TF0 | | RBS7-652 | |
| | | | All | | RBS7-653 RBS7-654 | |
| | | | Reference to clause 6.11 Parameter Set | | RBS7-655 | |
| | | | Reference to clause 6.11 Parameter Set | | RBS7-656 | |
| | | | Reference to clause 6.11 Parameter Set | | RBS7-657 | |
| | | | Reference to clause 6.11 Parameter Set | | RBS7-658 | |
| | | <ul style="list-style-type: none"> - CRC size - DCH quality target - BLER Quality value | A2, A8 | Reference to clause 6.11 Parameter Set | | RBS7-659 |
| | | | | -2.0 | | RBS7-660 |
| | | | | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) | | RBS7-661 RBS7-662 |
| DCH | | | | RBS7-663 | | |
| 10 | | | | RBS7-664 | | |
| Same as UL | | | | RBS7-665 | | |
| DCH | | | | RBS7-666 | | |
| 5 | | | | RBS7-667 RBS7-668 | | |
| 2.0 | | | | RBS7-669 | | |
| DCH | | | | RBS7-670 | | |
| 6 | | | | RBS7-671 | | |
| Explicit | | | | RBS7-672 RBS7-673 | | |
| Dedicated transport channel | | | | RBS7-674 RBS7-675 | | |
| Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | | | RBS7-676 RBS7-677 RBS7-678 | | |
| Not Present | | | | RBS7-679 | | |
| Reference to clause 6.11 Parameter Set | | | | RBS7-680 | | |
| All | | | | RBS7-681 RBS7-682 | | |
| Reference to clause 6.11 Parameter Set | | | | RBS7-683 | | |
| Reference to clause 6.11 Parameter Set | | | | RBS7-684 | | |
| Reference to clause 6.11 Parameter Set | | | | RBS7-685 | | |
| Reference to clause 6.11 Parameter Set | | RBS7-686 | | | | |
| Reference to clause 6.11 Parameter Set | | RBS7-687 RBS7-688 | | | | |
| Not Present | | RBS7-689 | | | | |
| DCH | | RBS7-690 | | | | |
| 7 | | RBS7-691 | | | | |
| Explicit | | RBS7-692 RBS7-693 | | | | |
| Dedicated transport channel | | RBS7-694 RBS7-695 | | | | |
| Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | RBS7-696 RBS7-697 RBS7-698 | | | | |
| Not Present | | RBS7-699 | | | | |

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| <ul style="list-style-type: none"> - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List | | Reference to clause 6.11 Parameter Set All | | RBS7-700 RBS7-701 RBS7-702 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-703 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-704 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-705 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-706 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-707 | | | |
| | | Reference to clause 6.11 Parameter Set | | RBS7-708 | | | |
| | | Not Present | | RBS7-709 | | | |
| | | DCH | | RBS7-710 | | | |
| | | 8 | | RBS7-711 | | | |
| | | Explicit | | RBS7-712 | | | |
| | | | | RBS7-713 | | | |
| | | Dedicated transport channel | | RBS7-714 | | | |
| | | | | RBS7-715 | | | |
| | | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | | RBS7-716 RBS7-717 | | | |
| | | <ul style="list-style-type: none"> - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type | | A9 | Not Present | Rel-5 Rel-6 | RBS7-718 |
| | | | | | Reference to clause 6.10 Parameter Set All | | RBS7-719 RBS7-720 RBS7-721 RBS7-722 |
| Reference to clause 6.11 Parameter Set | RBS7-723 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-724 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-725 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-726 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-727 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-728 | | | | | | |
| Not Present | RBS7-729 | | | | | | |
| 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) | RBS7-730 | | | | | | |
| DCH | RBS7-731 | | | | | | |
| 10 | RBS7-732 | | | | | | |
| Same as UL | RBS7-733 | | | | | | |
| DCH | RBS7-734 | | | | | | |
| 5 | RBS7-735 | | | | | | |
| | RBS7-736 | | | | | | |
| | RBS7-737 | | | | | | |
| -2.0 | RBS7-738 | | | | | | |
| DCH | RBS7-739 | | | | | | |
| 6 | RBS7-740 | | | | | | |
| Explicit | RBS7-741 | | | | | | |
| | RBS7-742 | | | | | | |
| Dedicated transport channel | RBS7-743 | | | | | | |
| | RBS7-744 | | | | | | |
| Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) | RBS7-745 RBS7-746 RBS7-747 | | | | | | |
| Not Present | RBS7-748 | | | | | | |
| Reference to clause 6.11 Parameter Set All | RBS7-749 RBS7-750 RBS7-751 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-752 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-753 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-754 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-755 | | | | | | |
| Reference to clause 6.11 Parameter Set | RBS7-756 | | | | | | |
| | RBS7-757 | | | | | | |
| -2.0 | RBS7-758 | | | | | | |
| HS-DSCH | RBS7-759 | | | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|--|
| <ul style="list-style-type: none"> - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info - Number of Processes - CHOICE <i>Memory</i> <i>Partitioning</i> <ul style="list-style-type: none"> - Added or reconfigured MAC-d flow | | Not Present HS-DSCH Reference to clause 6.11 Parameter Set Implicit (one queue) | | RBS7-760 RBS7-761 RBS7-762 RBS7-763 RBS7-764 RBS7-765 RBS7-766 RBS7-767 RBS7-768 RBS7-769 RBS7-770 RBS7-771 RBS7-772 RBS7-773 RBS7-774 RBS7-775 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target <ul style="list-style-type: none"> - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <ul style="list-style-type: none"> - HARQ Info - Number of Processes - CHOICE <i>Memory</i> <i>Partitioning</i> <ul style="list-style-type: none"> - Added or reconfigured MAC-d flow | A10 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 HS-DSCH Not Present HS-DSCH Reference to clause 6.11 Parameter Set Implicit (one queue) | Rel-5 | RBS7-776 RBS7-777 RBS7-778 RBS7-779 RBS7-780 RBS7-781 RBS7-782 RBS7-783 RBS7-784 RBS7-785 RBS7-786 RBS7-787 RBS7-788 RBS7-789 RBS7-790 RBS7-791 RBS7-792 RBS7-793 RBS7-794 RBS7-795 RBS7-796 RBS7-797 RBS7-798 RBS7-799 RBS7-800 RBS7-801 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval | A11 | 1 DCH for DTCH DCH 9 Explicit Dedicated transport channel Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All Reference to clause 6.11 Parameter Set | | RBS7-802 RBS7-803 RBS7-804 RBS7-805 RBS7-806 RBS7-807 RBS7-808 RBS7-809 RBS7-810 RBS7-811 RBS7-812 RBS7-813 RBS7-814 RBS7-815 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------------|--|-----------------------|--|
| <ul style="list-style-type: none"> - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set -2.0 | | RBS7-816 RBS7-817 RBS7-818 RBS7-819 RBS7-820 RBS7-821 |
| Frequency info | A6 | Not Present | | RBS7-822 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBS7-823 |
| DTX-DRX information | | Not Present | Rel-7 | RBS7-824 |
| HS-SCCH less information | | Not Present | Rel-7 | RBS7-825 |
| MIMO parameters | | Not Present | Rel-7 | RBS7-826 |
| Maximum allowed UL TX power | A1, A2, A3, A4, A7, A8, A11, A9, A10 | 33dBm | | RBS7-827 |
| Maximum allowed UL TX power | A5, A6 | Not Present | Rel-5 Rel-6 | RBS7-828 RBS7-829 RBS7-830 |
| CHOICE channel requirement | A1, A2, A3, A4, A7, A8, A9, A10, A11 | Uplink DPCH info | R99 and Rel-4 only | RBS7-831 |
| <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - UL target SIR - CHOICE UL OL PC info - CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option - Extended UL Timing Advance | | TDD Not Present Broadcast UL OL PC info TDD | | RBS7-832 RBS7-833 RBS7-834 RBS7-835 RBS7-836 RBS7-837 RBS7-838 RBS7-839 |
| <ul style="list-style-type: none"> - UL CCTrCH List - TFCS Id - UL target SIR - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - CHOICE TDD option - Uplink DPCH timeslots and codes VHCR - Dynamic SF usage - First individual timeslot info - Timeslot number | | Enabled 7.68 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present | Rel-7 Rel-7 | RBS7-841 RBS7-842 RBS7-843 RBS7-844 RBS7-845 RBS7-846 RBS7-847 RBS7-848 RBS7-849 RBS7-850 RBS7-851 RBS7-852 RBS7-853 |
| <ul style="list-style-type: none"> - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration | | Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 7.68 Mcps TDD | Rel-7 | RBS7-854 RBS7-855 RBS7-856 |
| <ul style="list-style-type: none"> - CHOICE TDD option - First timeslot Code List | | TRUE The number of an uplink timeslot that has unassigned codes. TRUE | | RBS7-857 RBS7-858 RBS7-859 RBS7-860 RBS7-861 RBS7-862 |
| <ul style="list-style-type: none"> - Channelisation code | | 7.68 Mcps Reference to clause 6.11 Parameter Set Default Choose lowest possible Kcell value given burst type | Rel-7 | RBS7-863 RBS7-864 |
| <ul style="list-style-type: none"> - CHOICE more timeslots | | 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6.11 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in clause 6.11 Parameter Set. | Rel-7 | RBS7-865 |
| <ul style="list-style-type: none"> - UL CCTrCH List to Remove | | The presence of this IE depends upon the number of resources specified in clause 6.11 Parameter Set and the number of slots in which they are being assigned. Not present | | RBS7-866 RBS7-867 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-------------------------------------|--|--------------------|----------------------------------|
| CHOICE channel requirement | A5,A6 | Not Present | Rel-5 and earlier | RBS7-868 |
| CHOICE Mode | A1, A2, A3, A4, A5, A6, A7, A8, A11 | TDD | R99 and Rel-4 only | RBS7-869 RBS7-870 |
| Downlink HS-PDSCH Information | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present | Rel-5 | RBS7-871 |
| Downlink HS-PDSCH Information | A9, A10 | | Rel-5 Rel-6 | RBS7-872 RBS7-873 RBS7-874 |
| - HS-SCCH Info | | TDD | | RBS7-875 |
| - CHOICE mode | | 7.68 Mcps | Rel-7 | RBS7-876 |
| - CHOICE TDD option | | 0dB | | RBS7-877 |
| - Ack-Nack Power Offset | | | | RBS7-878 |
| - HS-SICH Power Control Info | | 0dB | | RBS7-879 |
| - UL SIR target | | -10dB | | RBS7-880 |
| - HS-SICH Constant Value | | Not present | | RBS7-881 |
| - $D_{hs-sync}$ | | 4 | | RBS7-882 |
| - HS-SCCH Set Configuration | | The timeslot in which HS-SCCH is to be configured | | RBS7-883 |
| - Timeslot number | | CC32/x where x is a previously unassigned channelisation code in this TS | | RBS7-884 |
| - Channelisation code | | Default | | RBS7-885 |
| - Midamble Allocation mode | | 8 | | RBS7-886 |
| - Midamble configuration | | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | | RBS7-887 |
| - BLER target | | | | RBS7-888 |
| - HS-SICH configuration | | The timeslot in which HS-SICH is to be configured | | RBS7-889 |
| - Timeslot number | | CC32/x where x is a previously unassigned channelisation code in this TS | | RBS7-890 |
| - Channelisation code | | Default | | RBS7-891 |
| - Midamble Allocation mode | | 8 | | RBS7-892 |
| - Midamble configuration | | Not Present | | RBS7-893 |
| - Measurement Feedback Info | | TDD | | RBS7-894 |
| - CHOICE mode | | 7.68 Mcps TDD | Rel-7 | RBS7-895 |
| - CHOICE TDD option | | | | RBS7-896 |
| - HS-PDSCH Timeslot | | | | |
| Configuration VHCR | | | | |
| - HS-PDSCH Timeslot | | Reference to clause 6.11 Parameter Set | | RBS7-897 |
| Configuration List | | | | |
| - Timeslot Number | | The timeslot(s) in which HS-HS-DSCH is to be configured | | RBS7-898 |
| - CHOICE Burst Type | | Reference to clause 6.11 Parameter Set | | RBS7-899 |
| - Midamble Allocation Mode | | Default | | RBS7-900 |
| - Midamble configuration burst type | | 8 | | RBS7-901 |
| 1 and 3 | | | | |
| Downlink information common for all radio links | A5, A6 | Not present | | RBS7-902 |
| Downlink information common for all radio links | A1, A2, A3, A9, A11 | | | RBS7-903 |
| - CHOICE DPCH info | | Downlink DPCH info common for all RL | Rel-6 | RBS7-904 |
| - Timing indication | | Maintain | | RBS7-905 |
| - CFN-targetSFN frame offset | | Not Present | R99 and Rel-4 only | RBS7-906 |
| - Downlink DPCH power control information | | | | RBS7-907 |
| - CHOICE mode | | TDD | | RBS7-908 |
| - TPC Step Size | | 1 | | RBS7-909 |
| - MAC-d HFN initial value | | Not Present | | RBS7-910 |
| - CHOICE mode | | TDD | | RBS7-911 |
| - CHOICE mode | | TDD | Rel-7 | RBS7-912 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBS7-913 |
| - Default DPCH Offset Value | | Not Present | | RBS7-914 |
| - Mac-hs reset indicator | | Not Present | | RBS7-915 |
| Downlink information common for all | A4, A7, A8, A10 | | | RBS7-916 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------------|---|-----------------------|----------|
| radio links | | Downlink DPCH info common for all RL | Rel-6 | RBS7-917 |
| - CHOICE DPCH info | | Initialise | | RBS7-918 |
| - Timing indication | | Not Present | R99 and Rel-4 only | RBS7-919 |
| - CFN-targetSFN frame offset | | | | RBS7-920 |
| - Downlink DPCH power control information | | | | |
| - CHOICE mode | | TDD | | RBS7-921 |
| - TPC Step Size | | 1 | | RBS7-922 |
| - MAC-d HFN initial value | | Not Present | | RBS7-923 |
| - CHOICE mode | | TDD | | RBS7-924 |
| - CHOICE mode | | TDD | | RBS7-925 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBS7-926 |
| - Default DPCH Offset Value | | Not Present | | RBS7-927 |
| - Mac-hs reset indicator | | Not Present | | RBS7-928 |
| Downlink information for each radio link list | A1, A2, A3, A4, A7, A8, A9, A10, A11 | 1 | | RBS7-929 |
| - Downlink information for each radio link | | | | RBS7-930 |
| - Choice mode | | 7.68 Mcps TDD | Rel-7 | RBS7-931 |
| - Primary CCPCH info | | | | RBS7-932 |
| - Choice mode | | TDD | | RBS7-933 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBS7-934 |
| - CHOICE SyncCase | | Sync Case 2 | | RBS7-935 |
| - Timeslot | | 0 | | RBS7-936 |
| - Cell parameters ID | | 10 | | RBS7-937 |
| - SCTD indicator | | FALSE | | RBS7-938 |
| - CHOICE DPCH info | | Downlink DPCH info for each RL | Rel-6 | RBS7-939 |
| - CHOICE mode | | TDD | | RBS7-940 |
| - DL CCTrCH List | | 1 CCTrCh | | RBS7-941 |
| - TFCS ID | | 1 | | RBS7-942 |
| - Activation time | | Not Present | | RBS7-943 |
| - Duration | | Not Present | | RBS7-944 |
| - Common timeslot info | | | | RBS7-945 |
| - 2 nd interleaving mode | | Reference to clause 6.11 Parameter Set | | RBS7-946 |
| - TFCI coding | | Reference to clause 6.11 Parameter Set | | RBS7-947 |
| - Puncturing Limit | | Reference to clause 6.11 Parameter Set | | RBS7-948 |
| - Repetition Period | | Reference to clause 6.11 Parameter Set | | RBS7-949 |
| - Repetition Length | | Reference to clause 6.11 Parameter Set | | RBS7-950 |
| - Downlink DPCH timeslots and codes VHCR | | | Rel-7 | RBS7-951 |
| - Individual timeslot info | | | | RBS7-952 |
| - Timeslot number | | The number of a downlink timeslot that has unassigned codes. | | RBS7-953 |
| - TFCI existence | | TRUE | | RBS7-954 |
| - Midamble shift and burst type | | | | RBS7-955 |
| - CHOICE TDD option | | 7.68 Mcps | Rel-7 | RBS7-956 |
| - CHOICE Burst Type | | Reference to clause 6.11 Parameter Set | | RBS7-957 |
| - Midamble Allocation Mode | | Default | | RBS7-958 |
| - Midamble configuration | | Set Kcell to lowest possible value given the number of codes defined in clause 6.11 Parameter Set | | RBS7-959 |
| - CHOICE TDD option | | 7.68 Mcps | Rel-7 | RBS7-960 |
| - First timeslot channelisation codes VHCR | | | Rel-7 | RBS7-961 |
| - CHOICE codes | | Consecutive codes | | RBS7-962 |
| representation | | | | |
| - First channelisation code | | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6.11 Parameter Set. | | RBS7-963 |
| - Last channelisation code | | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in clause 6.11 Parameter Set. | | RBS7-964 |
| - CHOICE more timeslots | | The presence of this IE depends upon whether the requirements of clause 6.11 Parameter Set t could be met by the codes that have been assigned in the | | RBS7-965 |

| Information Element | Condition | Value/remark | Version | Index |
|--|---|----------------------|--|----------|
| <ul style="list-style-type: none"> - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared channel indicator - DL CCTrCH List to Remove - SCCPCH information for FACH | A5 | first timeslot. 1 | R99 and Rel-4 only Rel-6 Rel-6 Rel-6 | RBS7-966 |
| | | 1 | | RBS7-967 |
| | | 1 | | RBS7-968 |
| | | False | | RBS7-969 |
| | | Not Present | | RBS7-970 |
| | | Not Present | | RBS7-971 |
| | | Not Present | | RBS7-972 |
| | | Not Present | | RBS7-973 |
| | | Not Present | | RBS7-974 |
| | | Not Present | | RBS7-975 |
| Downlink information for each radio link list | A5 | | | RBS7-976 |
| - Downlink information for each radio link | | | | |
| - Choice mode | | TDD | | RBS7-977 |
| - Primary CCPCH info | | | | RBS7-978 |
| - Choice mode | | TDD | | RBS7-979 |
| - CHOICE TDD option | | 7.68 Mcps TDD | | RBS7-980 |
| - CHOICE SyncCase | | Sync Case 2 | | RBS7-981 |
| - Timeslot | | 0 | | RBS7-982 |
| - Cell parameters ID | | 10 | | RBS7-983 |
| - SCTD indicator | | FALSE | | RBS7-984 |
| - CHOICE DPCH info | Not present | Rel-6 | RBS7-985 | |
| - E-AGCH Info | Not Present | Rel-6 | RBS7-986 | |
| - CHOICE E-HICH Information | Not Present | Rel-6 | RBS7-987 | |
| - CHOICE E-RGCH Information | Not Present | Rel-6 | RBS7-988 | |
| Downlink information for each radio link list | A6 | Not present | | RBS7-989 |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present | | RBS7-990 |
| | | | Rel-5 | RBS7-991 |
| | | | Rel-6 | RBS7-992 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS" | |
| A2 | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS" | |
| A3 | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS" | |
| A4 | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS" | |
| A5 | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS" | |
| A6 | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS" | |
| A7 | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS" | |
| A8 | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS" | |
| A9 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5 |
| A10 | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS" | Rel-5 |
| A11 | This IE is needed for " Packet RAB Setup after Speech RAB Setup in CELL_DCH" | |

Contents of RADIO BEARER SETUP COMPLETE message: AM

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message. | |
| Integrity check info | | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked. | |
| CHOICE mode | TDD | |

| | | |
|--|---|-------|
| - CHOICE <i>TDD option</i> START | Check that this IE is present Not checked (if ciphering is OFF), check the presence if ciphering is ON. | Rel-4 |
| COUNT-C activation time | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent. | |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs. | |
| Uplink counter synchronization info | Not present | |

Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element | Value/remark |
|---|--|
| Message Type RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message. |
| Integrity check info - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause Radio bearers for which reconfiguration would have succeeded | Checked to see if it meets test requirement Not Check |

Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|---|---------|
| Message Type RRC transaction identifier | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. | |
| Integrity check info - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info CHOICE mode - CHOICE <i>TDD option</i> | Not checked. TDD 1.28 Mcps TDD (no data) | |
| COUNT-C activation time | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent. | |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs. | |
| Uplink counter synchronization info | Not checked | |

Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

| Information Element | Value/remark | Version |
|--|--|---------|
| Message Type RRC transaction identifier | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. | |
| Integrity check info | | |

| Information Element | Value/remark | Version |
|--|---|---------|
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. | |
| Uplink integrity protection activation info | Not checked. | |
| CHOICE mode | TDD | |
| - CHOICE TDD option | 7.68 Mcps TDD (no data) | |
| - Extended Uplink Timing advance | Not Present | |
| COUNT-C activation time | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent. | |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs. | |

Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Failure cause | Checked to see if it meets test requirement |
| Radio bearers for which reconfiguration would have succeeded | Not checked |

Contents of RRC CONNECTION REQUEST message: TM

| Information Element | Value/remark | Version |
|---|--|---------|
| Message Type | | |
| Predefined configuration status information | To be checked against requirement if specified | Rel-5 |
| Initial UE identity | | |
| - CHOICE UE id type | | |
| - IMSI (GSM-MAP) | Set to the UE's IMSI (GSM-MAP) or TMSI. | |
| Establishment cause | To be checked against requirement if specified | |
| Protocol error indicator | FALSE | |
| UE Specific Behaviour Information 1 idle | This IE will not be checked by default behaviour, but in specific test case. | |
| Domain indicator | To be checked against requirement if specified | Rel-6 |
| Call type | To be checked against requirement if specified | Rel-6 |
| UE capability indication | To be checked against requirement if specified | Rel-6 |
| MBMS Selected Services | To be checked against requirement if specified | Rel-6 |
| UE Mobility State Indicator | To be checked against requirement if specified | Rel-7 |
| Support for F-DPCH | To be checked against requirement if specified | Rel-6 |
| Support for Enhanced F-DPCH | To be checked against requirement if specified | Rel-7 |
| HS-PDSCH in CELL_FACH | To be checked against requirement if specified | Rel-7 |
| MAC-ehs support | To be checked against requirement if specified | Rel-7 |
| DPCCH Discontinuous Transmission support | To be checked against requirement if specified | Rel-7 |
| Support of common E-DCH | To be checked against requirement if specified | Rel-8 |
| Multi cell support | To be checked against requirement if specified | Rel-8 |
| Dual cell MIMO support | To be checked against requirement if specified | Rel-9 |
| More than two cell support | To be checked against requirement if specified | Rel-10 |
| Pre-redirectio n info | To be checked against requirement if specified | Rel-8 |
| Support of MAC-i/is | To be checked against requirement if specified | Rel-8 |
| Support of SPS operation | To be checked against requirement if specified | Rel-8 |

| | | |
|---|--|--------|
| Support for CS Voice over HSPA | To be checked against requirement if specified | Rel-8 |
| System Information Container Stored Indicator | To be checked against requirement if specified | Rel-9 |
| Support of the first Frequency Band | To be checked against requirement if specified | Rel-10 |
| Support of the second Frequency Band | To be checked against requirement if specified | Rel-10 |
| Measured results on RACH | To be checked against requirement if specified | |
| Access stratum release indicator | To be checked against requirement if specified | Rel-4 |

Contents of RRC CONNECTION REJECT message: UM

| Information Element | Value/remark |
|----------------------------|---|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Initial UE identity | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message. |
| Rejection cause | Unspecified |
| Wait Time | 0 |
| Redirection info | Not Present |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark | Version |
|-------------------------------|--|------------|
| Message Type | | |
| U-RNTI | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B | R99, Rel-4 |
| - SRNC identity | | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| CHOICE identity type | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | Rel-5 |
| - U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| - Group identity | [FFS] | |
| - Group release information | [FFS] | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. | |
| N308 | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). | |
| Release cause | Normal event | |
| UE Mobility State Indicator | Not Present | Rel-7 |
| Extended Wait Time | Not Present | Rel-10 |
| Rplmn information | Not Present | |
| Redirection info | Not Present | Rel-6 |

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element | Semantics description |
|-------------------------------|---|
| Message Type | |
| RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message. |
| Integrity check info | |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I |

Error indication

Not checked

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (3.84 Mcps TDD option)

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| Message Type | | | RCS3-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message | | RCS3-002 |
| RRC transaction identifier | 0 | | RCS3-003 |
| Activation time | Not Present(Now) | | RCS3-004 |
| New U-RNTI | | | RCS3-005 |
| - SRNC identity | 0000 0000 0001B | | RCS3-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS3-007 |
| New C-RNTI | Not Present | | RCS3-008 |
| RRC State Indicator | CELL_DCH | | RCS3-009 |
| UTRAN DRX cycle length coefficient | 9 | | RCS3-010 |
| Capability update requirement | | | RCS3-011 |
| - UE radio access FDD capability update requirement | FALSE | | RCS3-012 |
| - UE radio access TDD capability update requirement | TRUE | | RCS3-013 |
| - System specific capability update requirement list | GSM | | RCS3-014 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS3-015 |
| - Complete specification | | Rel-5 | RCS3-016 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS3-017 |
| - RB identity | Not Present | | RCS3-018 |
| - CHOICE RLC info type | | | RCS3-019 |
| - RLC info | | | RCS3-020 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS3-021 |
| - Transmission RLC discard | Not Present | | RCS3-022 |
| | | | RCS3-023 |
| | | | RCS3-024 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS3-025 |
| - RB mapping info | | | RCS3-026 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS3-027 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-028 |
| - Number of RLC logical channels | 1 | | RCS3-029 |
| - Uplink transport channel type | DCH | | RCS3-030 |
| - UL Transport channel identity | 5 | | RCS3-031 |
| - Logical channel identity | 1 | | RCS3-032 |
| - CHOICE RLC size list | Configured | | RCS3-033 |
| - MAC logical channel priority | 1 | | RCS3-034 |
| - Downlink RLC logical channel info | | | RCS3-035 |
| - Number of RLC logical channels | 1 | | RCS3-036 |
| - Downlink transport channel type | DCH | | RCS3-037 |
| - DL DCH Transport channel identity | 10 | | RCS3-038 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-039 |
| - Logical channel identity | 1 | | RCS3-040 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-041 |
| - Number of RLC logical channels | 1 | | RCS3-042 |
| - Uplink transport channel type | RACH | | RCS3-043 |
| - UL Transport channel identity | Not Present | | RCS3-044 |
| - Logical channel identity | 1 | | RCS3-045 |
| - CHOICE RLC size list | Explicit List | | RCS3-046 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-047 |
| - MAC logical channel priority | 1 | | RCS3-048 |
| - Downlink RLC logical channel info | | | RCS3-049 |
| - Number of RLC logical channels | 1 | | RCS3-050 |
| - Downlink transport channel type | FACH | | RCS3-051 |
| - DL DCH Transport channel | Not Present | | RCS3-052 |

| Information Element | Value/remark | Version | Index |
|--------------------------------------|--|---------|----------|
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-053 |
| identity | | | |
| - Logical channel identity | 1 | | RCS3-054 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS3-055 |
| - RB identity | Not Present | | RCS3-056 |
| - CHOICE RLC info type | | | RCS3-057 |
| - RLC info | | | RCS3-058 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-059 |
| - Transmission RLC discard | | | RCS3-060 |
| - SDU discard mode | No Discard | | RCS3-061 |
| - MAX_DAT | 15 | | RCS3-062 |
| | | | RCS3-063 |
| | | | RCS3-064 |
| - Transmission window size | 128 | | RCS3-065 |
| - Timer_RST | 500 | | RCS3-066 |
| - Max_RST | 1 | | RCS3-067 |
| - Polling info | | | RCS3-068 |
| - Timer_poll_prohibit | 200 | | RCS3-069 |
| - Timer_poll | 200 | | RCS3-070 |
| - Poll_PDU | Not present | | RCS3-071 |
| - Poll_SDU | 1 | | RCS3-072 |
| - Last transmission PDU poll | TRUE | | RCS3-073 |
| - Last retransmission PDU poll | TRUE | | RCS3-074 |
| - Poll_Window | 99 | | RCS3-075 |
| - Timer_poll_periodic | Not Present | | RCS3-076 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-077 |
| - In-sequence delivery | TRUE | | RCS3-078 |
| - Receiving window size | 128 | | RCS3-079 |
| - Downlink RLC status info | | | RCS3-080 |
| - Timer_status_prohibit | 200 | | RCS3-081 |
| - Timer_EPC | Not Present | | RCS3-082 |
| - Missing PDU indicator | TRUE | | RCS3-083 |
| - Timer_STATUS_periodic | Not Present | | RCS3-084 |
| - RB mapping info | | | RCS3-085 |
| - Information for each multiplexing | 2 RBMuxOptions | | RCS3-086 |
| option | | | |
| - RLC logical channel mapping | Not Present | | RCS3-087 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-088 |
| - Uplink transport channel type | DCH | | RCS3-089 |
| - UL Transport channel identity | 5 | | RCS3-090 |
| - Logical channel identity | 2 | | RCS3-091 |
| - CHOICE RLC size list | Configure | | RCS3-092 |
| - MAC logical channel priority | 2 | | RCS3-093 |
| - Downlink RLC logical channel info | | | RCS3-094 |
| - Number of RLC logical channels | 1 | | RCS3-095 |
| - Downlink transport channel type | DCH | | RCS3-096 |
| - DL DCH Transport channel | 10 | | RCS3-097 |
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-098 |
| identity | | | |
| - Logical channel identity | 2 | | RCS3-099 |
| - RLC logical channel mapping | Not Present | | RCS3-100 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-101 |
| - Uplink transport channel type | RACH | | RCS3-102 |
| - UL Transport channel identity | Not Present | | RCS3-103 |
| - Logical channel identity | 2 | | RCS3-104 |
| - CHOICE RLC size list | Explicit List | | RCS3-105 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-106 |
| | | | RCS3-107 |
| - MAC logical channel priority | 2 | | RCS3-108 |
| - Downlink RLC logical channel info | | | RCS3-109 |
| - Number of RLC logical channels | 1 | | RCS3-110 |
| - Downlink transport channel type | FACH | | RCS3-111 |
| - DL DCH Transport channel | Not Present | | RCS3-111 |

| Information Element | Value/remark | Version | Index |
|-------------------------------------|--|---------|----------|
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-112 |
| identity | | | |
| - Logical channel identity | 2 | | RCS3-113 |
| Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS3-114 |
| - RB identity | Not Present | | RCS3-115 |
| - CHOICE RLC info type | | | RCS3-116 |
| - RLC info | | | RCS3-117 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-118 |
| - Transmission RLC discard | | | RCS3-119 |
| - SDU discard mode | No Discard | | RCS3-120 |
| - MAX_DAT | 15 | | RCS3-121 |
| | | | RCS3-122 |
| | | | RCS3-123 |
| - Transmission window size | 128 | | RCS3-124 |
| - Timer_RST | 500 | | RCS3-125 |
| - Max_RST | 1 | | RCS3-126 |
| - Polling info | | | RCS3-127 |
| - Timer_poll_prohibit | 200 | | RCS3-128 |
| - Timer_poll | 200 | | RCS3-129 |
| - Poll_PDU | Not present | | RCS3-130 |
| - Poll_SDU | 1 | | RCS3-131 |
| - Last transmission PDU poll | TRUE | | RCS3-132 |
| - Last retransmission PDU poll | TRUE | | RCS3-133 |
| - Poll_Windows | 99 | | RCS3-134 |
| - Timer_poll_periodic | Not Present | | RCS3-135 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-136 |
| - In-sequence delivery | TRUE | | RCS3-137 |
| - Receiving window size | 128 | | RCS3-138 |
| - Downlink RLC status info | | | RCS3-139 |
| - Timer_status_prohibit | 200 | | RCS3-140 |
| - Timer_EPC | Not Present | | RCS3-141 |
| - Missing PDU indicator | TRUE | | RCS3-142 |
| - Timer_STATUS_periodic | Not Present | | RCS3-143 |
| - RB mapping info | | | RCS3-144 |
| - Information for each multiplexing | 2 RBMuxOptions | | RCS3-145 |
| option | | | |
| - RLC logical channel mapping | Not Present | | RCS3-146 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-147 |
| - Uplink transport channel type | DCH | | RCS3-148 |
| - UL Transport channel identity | 5 | | RCS3-149 |
| - Logical channel identity | 3 | | RCS3-150 |
| - CHOICE RLC size list | Configured | | RCS3-151 |
| - MAC logical channel priority | 3 | | RCS3-152 |
| - Downlink RLC logical channel info | | | RCS3-153 |
| - Number of RLC logical channels | 1 | | RCS3-154 |
| - Downlink transport channel type | DCH | | RCS3-155 |
| - DL DCH Transport channel | 10 | | RCS3-156 |
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-157 |
| identity | | | |
| - Logical channel identity | 3 | | RCS3-158 |
| - RLC logical channel mapping | Not Present | | RCS3-159 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-160 |
| - Uplink transport channel type | RACH | | RCS3-161 |
| - UL Transport channel identity | Not Present | | RCS3-162 |
| - Logical channel identity | 3 | | RCS3-163 |
| - CHOICE RLC size list | Explicit List | | RCS3-164 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-165 |
| - MAC logical channel priority | 3 | | RCS3-166 |
| - Downlink RLC logical channel info | | | RCS3-167 |
| - Number of RLC logical channels | 1 | | RCS3-168 |
| - Downlink transport channel type | FACH | | RCS3-169 |
| - DL DCH Transport channel | Not Present | | RCS3-170 |

| Information Element | Value/remark | Version | Index |
|--------------------------------------|--|---------|----------|
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-171 |
| identity | | | |
| - Logical channel identity | 3 | | RCS3-172 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS3-173 |
| - RB identity | Not Present | | RCS3-174 |
| - CHOICE RLC info type | | | RCS3-175 |
| - RLC info | | | RCS3-176 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-177 |
| - Transmission RLC discard | | | RCS3-178 |
| - SDU discard mode | No discard | | RCS3-179 |
| - MAX_DAT | 15 | | RCS3-180 |
| | | | RCS3-181 |
| | | | RCS3-182 |
| - Transmission window size | 128 | | RCS3-183 |
| - Timer_RST | 500 | | RCS3-184 |
| - Max_RST | 1 | | RCS3-185 |
| - Polling info | | | RCS3-186 |
| - Timer_poll_prohibit | 200 | | RCS3-187 |
| - Timer_poll | 200 | | RCS3-188 |
| - Poll_PDU | Not present | | RCS3-189 |
| - Poll_SDU | 1 | | RCS3-190 |
| - Last transmission PDU poll | TRUE | | RCS3-191 |
| - Last retransmission PDU poll | TRUE | | RCS3-192 |
| - Poll_Windows | 99 | | RCS3-193 |
| - Timer_poll_periodic | Not Present | | RCS3-194 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-195 |
| - In-sequence delivery | TRUE | | RCS3-196 |
| - Receiving window size | 128 | | RCS3-197 |
| - Downlink RLC status info | | | RCS3-198 |
| - Timer_status_prohibit | 200 | | RCS3-199 |
| - Timer_EPC | Not Present | | RCS3-200 |
| - Missing PDU indicator | TRUE | | RCS3-201 |
| - Timer_STATUS_periodic | Not Present | | RCS3-202 |
| - RB mapping info | | | RCS3-203 |
| - Information for each multiplexing | 2 RBMuxOptions | | RCS3-204 |
| option | | | |
| - RLC logical channel mapping | Not Present | | RCS3-205 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-206 |
| - Uplink transport channel type | DCH | | RCS3-207 |
| - UL Transport channel identity | 5 | | RCS3-208 |
| - Logical channel identity | 4 | | RCS3-209 |
| - CHOICE RLC size list | Configured | | RCS3-210 |
| - MAC logical channel priority | 4 | | RCS3-211 |
| - Downlink RLC logical channel info | | | RCS3-212 |
| - Number of RLC logical channels | 1 | | RCS3-213 |
| - Downlink transport channel type | DCH | | RCS3-214 |
| - DL DCH Transport channel | 10 | | RCS3-215 |
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-216 |
| identity | | | |
| - Logical channel identity | 4 | | RCS3-217 |
| - RLC logical channel mapping | Not Present | | RCS3-218 |
| indicator | | | |
| - Number of RLC logical channels | 1 | | RCS3-219 |
| - Uplink transport channel type | RACH | | RCS3-220 |
| - UL Transport channel identity | Not Present | | RCS3-221 |
| - Logical channel identity | 4 | | RCS3-222 |
| - CHOICE RLC size list | Explicit List | | RCS3-223 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-224 |
| | | | RCS3-225 |
| - MAC logical channel priority | 4 | | RCS3-226 |
| - Downlink RLC logical channel info | | | RCS3-227 |
| - Number of RLC logical channels | 1 | | RCS3-228 |
| - Downlink transport channel type | FACH | | RCS3-229 |
| - DL DCH Transport channel | Not Present | | RCS3-229 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| identity | | | |
| - DL DSCH Transport channel | Not Present | | RCS3-230 |
| identity | | | |
| - Logical channel identity | 4 | | RCS3-231 |
| UL Transport channel information for all transport channels | | | RCS3-232 |
| - PRACH TFCS | Not Present | | RCS3-233 |
| - CHOICE mode | TDD | | RCS3-234 |
| - Individual UL CCTrCH information | | | RCS3-235 |
| - UL TFCS ID | (This IE is repeated for TFC number.) | | RCS3-236 |
| - UL TFCS | | | RCS3-237 |
| - TFC subset | Default value is the complete existing set of transport format combinations | | RCS3-238 |
| - Allowed Transport Format combination | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RCS3-239 |
| - PRACH TFCS | (This IE is repeated for TFC number.) | | RCS3-240 |
| - CHOICE TFCl signalling | Normal | | RCS3-241 |
| - TFCl Field 1 information | | | RCS3-242 |
| - TFCS complete | | | RCS3-243 |
| reconfigure information | | | |
| - CHOICE TFCS Size | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set | | RCS3-244 |
| - CTFC information | Not Present | | RCS3-245 |
| - CHOICE mode | TDD | | RCS3-246 |
| - Individual UL CCTrCH information | Not Present | | RCS3-247 |
| Deleted TrCH information list | Not Present | | RCS3-248 |
| Added or Reconfigured UL TrCH information | | | RCS3-249 |
| - Uplink transport channel type | DCH | | RCS3-250 |
| - UL Transport channel identity | 5 | | RCS3-251 |
| - TFS | | | RCS3-252 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS3-253 |
| - Dynamic Transport format information | | | RCS3-254 |
| - RLC size | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-255 |
| - Number of TBs and TTI lists | (This IE is repeated for TFI number) | | RCS3-256 |
| - CHOICE mode | TDD | | RCS3-257 |
| - Transmission Time Interval | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-258 |
| - CHOICE Logical channel list | All | | RCS3-259 |
| - Semi-static Transport Format information | | | RCS3-260 |
| DL Transport channel information common for all transport channel | | | RCS3-261 |
| - SCCPCH TFCS | Not Present | | RCS3-262 |
| - CHOICE mode | TDD | | RCS3-263 |
| - Individual DL CCTrCH information | | | RCS3-264 |
| - DL TFCS Identity | | | RCS3-265 |
| - TFCS ID | 1 | | RCS3-266 |
| - Shared Channel Indicator | | | RCS3-267 |
| - CHOICE DL parameters | Same as UL | | RCS3-268 |
| Added or Reconfigured TrCH information list | | | RCS3-269 |
| - Added or Reconfigured DL TrCH information | | | RCS3-270 |
| - Downlink transport channel type | DCH | | RCS3-271 |
| - DL Transport channel identity | 10 | | RCS3-272 |
| - CHOICE DL parameters | Same as UL | | RCS3-273 |
| - Uplink transport channel type | DCH | | RCS3-274 |
| - UL Transport channel identity | 5 | | RCS3-275 |
| - DCH quality target | | | RCS3-276 |
| - BLER Quality value | -63 (-6.3) | | RCS3-277 |
| Frequency info | Not Present | | RCS3-278 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------|
| Maximum allowed UL TX power | Not Present | | RCS3-279 |
| CHOICE channel requirement | Uplink DPCH info | | RCS3-280 |
| - Uplink DPCH power control info | | | RCS3-281 |
| - CHOICE mode | TDD | | RCS3-282 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps | | RCS3-283 |
| - UL target SIR | Reference to clause 6.10 Parameter set | | RCS3-284 |
| - CHOICE mode | TDD | | RCS3-285 |
| - CHOICE <i>UL OL PC info</i> | Individually signalled | | RCS3-286 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps | | RCS3-287 |
| - Individual timeslot interference | Not Present | | RCS3-288 |
| info | | | |
| - Individual timeslot interference | | | RCS3-289 |
| - DPCH Constant Value | | | RCS3-290 |
| - Primary CCPCH Tx Power | Not Present | | RCS3-291 |
| - Time info | | | RCS3-292 |
| - Activation time | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RCS3-293 |
| - Duration | Infinite | | RCS3-294 |
| - Common timeslot info | | | RCS3-295 |
| - 2 nd interleaving mode | Reference to clause 6.10 Parameter Set | | RCS3-296 |
| - TFCI coding | Reference to clause 6.10 Parameter Set | | RCS3-297 |
| - Puncturing Limit | Reference to clause 6.10 Parameter Set | | RCS3-298 |
| - Repetition Period | Reference to clause 6.10 Parameter Set | | RCS3-299 |
| - Repetition Length | Reference to clause 6.10 Parameter Set | | RCS3-300 |
| - Uplink DPCH timeslots and codes | Default is to use the old timeslots and codes | | RCS3-301 |
| - CPCH SET Info | (no data) | R99 and Rel-4 only | RCS3-302 |
| Downlink information common for all radio links | | | RCS3-303 |
| - Downlink DPCH info common for all RL | | | RCS3-304 |
| - Timing indicator | Maintain | | RCS3-305 |
| - CFN-targetSFN frame offset | Not Present | | RCS3-306 |
| - Downlink DPCH power control information | | | RCS3-307 |
| - DPC mode | 0 (single) | | RCS3-308 |
| - CHOICE mode | TDD | | RCS3-309 |
| - CHOICE TDD option | 3.84 Mcps (no data) | | RCS3-310 |
| - Default DPCH Offset Value | Not Present | | RCS3-311 |
| Downlink information for each radio link list | | | RCS3-312 |
| - Downlink information for each radio link | | | RCS3-313 |
| - Choice mode | TDD | | RCS3-314 |
| - Primary CCPCH info | | | RCS3-315 |
| - CHOICE <i>SyncCase</i> | Sync Case 1 | | RCS3-316 |
| - Timeslot | PCCPCH timeslot | | RCS3-317 |
| - Cell parameters ID | 0 | | RCS3-318 |
| - SCTD indicator | | | RCS3-319 |
| - Downlink DPCH info for each RL | | | RCS3-320 |
| - CHOICE mode | TDD | | RCS3-321 |
| - DL CCTrCH List | | | RCS3-322 |
| - TFCS ID | 1 | | RCS3-323 |
| - Time info | | | RCS3-324 |
| - Activation time | $(256+CFN-(CFN \text{ mod } 8 + 8))\text{mod } 256$ | | RCS3-325 |
| - Duration | infinite | | RCS3-326 |
| - Common timeslot info | | | RCS3-327 |
| - 2 nd interleaving mode | Reference to the present document | | RCS3-328 |
| - TFCI coding | TRUE | | RCS3-329 |
| - Puncturing limit | Reference to clause 6 Parameter set | | RCS3-330 |
| - Repetition period | 1 | | RCS3-331 |
| - Repetition length | Empty | | RCS3-332 |
| - Downlink DPCH timeslots and codes | | | RCS3-333 |
| - CHOICE <i>more timeslots</i> | | | RCS3-334 |
| - CHOICE TDD option | 3.84 Mcps | | RCS3-335 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes in a frame. | | RCS3-336 |
| - Individual timeslot info | | | RCS3-337 |

| Information Element | Value/remark | Version | Index |
|----------------------------------|-----------------------------|--|----------|
| burst type | - TFCI existence | TRUE | RCS3-338 |
| | - Midamble shift and | | RCS3-339 |
| Allocation Mode | - CHOICE TDD option | 3.84 Mcps | RCS3-340 |
| | -CHOICE Burst Type | | RCS3-341 |
| | -Type 1 | | RCS3-342 |
| configuration burst type 1 and 3 | -Midamble | Default | RCS3-343 |
| | - Midamble | As defined in 3GPP TS 25.221 [28] | RCS3-344 |
| channelisation codes | - First timeslot | | RCS3-345 |
| | - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set. | RCS3-346 |
| - CHOICE more timeslots | - Last channelisation code | (j/SF) where j is the highest numbered code that is being assigned in the slot. | RCS3-347 |
| | | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | RCS3-348 |
| | | | |
| - UL CCTrCH TPC List | Not Present | | RCS3-349 |
| -SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RCS3-350 |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option)

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------|---|---------|-----------|
| Message Type | A1,A2, A3 , A4, A5 | | | RCS1-001 |
| Initial UE identity | | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS1-002 |
| RRC transaction identifier | | 0 | | RCS1-003 |
| Activation time | | Not Present(Now) | | RCS1-004 |
| New U-RNTI | | | | RCS1-005 |
| - SRNC identity | | 0000 0000 0001B | | RCS1-006 |
| - S-RNTI | | 0000 0000 0000 0000 0001B | | RCS1-007 |
| New C-RNTI | A1, A2, A3 | Not Present | | RCS1-008 |
| New C-RNTI | A5 | '1010 1010 1010 1010' | Rel-8 | RCS1-009 |
| New H-RNTI | A1 | Not present | Rel-6 | RCS1-010 |
| New H-RNTI | A2 | | Rel-6 | RCS1-011 |
| | A3 | | Rel-7 | RCS1-012 |
| | A4, A5 | | Rel-8 | RCS1-013 |
| New E-RNTI | A1 | Not present | Rel-6 | RCS1-014 |
| New E-RNTI | A2, A3 | | Rel-7 | RCS1-015 |
| RRC State Indicator | | CELL_DCH | | RCS1-016 |
| RRC State Indicator | A5 | CELL_FACH | | RCS1-017 |
| UTRAN DRX cycle length coefficient | | 9, Integer(3...9) | | RCS1-018 |
| Capability update requirement | | | | RCS1-019 |
| - UE radio access FDD capability update requirement | | FALSE | | RCS1-020 |
| - UE radio access 3.84 Mcps TDD capability update requirement | | FALSE | | RCS1-021 |
| - UE radio access 1.28 Mcps TDD capability update requirement | | TRUE | | RCS1-022 |
| - System specific capability update requirement list | | Not Present | | RCS1-023 |
| - System specific capability update requirement list | UTRAN to E-UTRA | GSM, EUTRA | Rel-8 | RCS1-023a |
| RNC support for change of UE capability | | FALSE | Rel-8 | RCS1-023b |
| Default configuration for CELL_FACH | | Not Present | Rel-8 | RCS1-023c |
| CHOICE <i>specification mode</i> | | Complete specification | Rel-5 | RCS1-024 |
| - Complete specification | | | Rel-5 | RCS1-025 |
| - Signalling RB information to setup list | | | | RCS1-026 |
| - Signalling RB information to setup | A1 | (UM DCCH for RRC) | | RCS1-027 |
| - RB identity | | 1 | | RCS1-028 |
| - CHOICE RLC info type | | RLC info | | RCS1-029 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - CHOICE Uplink RLC mode | | UM RLC | | RCS1-030 |
| - Transmission RLC discard | | Not Present | | RCS1-031 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS1-032 |
| - RB mapping info | | | | RCS1-033 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS1-034 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-035 |
| - Number of RLC logical channels | | 1 | | RCS1-036 |
| - Uplink transport channel type | | DCH | | RCS1-037 |
| - UL Transport channel identity | | 5 | | RCS1-038 |
| - Logical channel identity | | 1 | | RCS1-039 |
| - CHOICE RLC size list | | Configured | | RCS1-040 |
| - MAC logical channel priority | | 1 | | RCS1-041 |
| - Downlink RLC logical channel info | | | | RCS1-042 |
| - Number of RLC logical channels | | 1 | | RCS1-043 |
| - Downlink transport channel type | | DCH | | RCS1-044 |
| - DL DCH Transport channel identity | | 10 | | RCS1-045 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-046 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-047 |
| - Logical channel identity | | 1 | | RCS1-048 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-049 |
| - Number of RLC logical channels | | 1 | | RCS1-050 |
| - Uplink transport channel type | | RACH | | RCS1-051 |
| - UL Transport channel identity | | Not Present | | RCS1-052 |
| - Logical channel identity | | 1 | | RCS1-053 |
| - CHOICE RLC size list | | Explicit List | | RCS1-054 |
| - RLC size index | | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) | | RCS1-055 |
| - MAC logical channel priority | | 1 | | RCS1-056 |
| - Downlink RLC logical channel info | | | | RCS1-057 |
| - Number of RLC logical channels | | 1 | | RCS1-058 |
| - Downlink transport channel type | | FACH | | RCS1-059 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-060 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-061 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-062 |
| - Logical channel identity | | 1 | | RCS1-063 |
| - Signalling RB information to setup | A2 | (UM DCCH for RRC) | | RCS1-064 |
| - RB identity | | 1 | | RCS1-065 |
| - CHOICE RLC info type | | RLC info | | RCS1-066 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS1-067 |
| - Transmission RLC discard | | Not Present | | RCS1-068 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS1-069 |
| - RB mapping info | | | | RCS1-070 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS1-071 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-072 |
| - Number of RLC logical channels | | 1 | | RCS1-073 |
| - Uplink transport channel type | | E-DCH | | RCS1-074 |
| - Logical channel identity | | 1 | | RCS1-075 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-076 |
| - DDI | | 1 | | RCS1-077 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-078 |
| - RLC PDU size | | 144 bits | | RCS1-079 |
| - Include in scheduling info | | FALSE | | RCS1-080 |
| - MAC logical channel priority | | 1 | | RCS1-081 |
| - Downlink RLC logical channel info | | | | RCS1-082 |
| - Number of RLC logical channels | | 1 | | RCS1-083 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------|---------|----------|
| - Downlink transport channel type | | HS-DSCH | | RCS1-084 |
| - DL DCH Transport channel identity | | Not present | | RCS1-085 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-086 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS1-087 |
| - Logical channel identity | | 1 | | RCS1-088 |
| - Signalling RB information to setup | A3 | (UM DCCH for RRC) | Rel-7 | RCS1-089 |
| | A4, A5 | | Rel-8 | RCS1-090 |
| - RB identity | | Not present | | RCS1-091 |
| - CHOICE RLC info type | | | | RCS1-092 |
| - RLC info | | | | RCS1-093 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS1-094 |
| - Transmission RLC discard | | Not Present | | RCS1-095 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS1-096 |
| - DL UM RLC LI size | | 7 bit | | RCS1-097 |
| - One sided RLC re-establishment | | FALSE | | RCS1-098 |
| - Alternative E-bit interpretation | | TRUE | | RCS1-099 |
| - Use special value of HE field | | Not present | | RCS1-100 |
| - RB mapping info | | | | RCS1-101 |
| - Information for each multiplexing option | | 1 RBmuxOption | | RCS1-102 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-103 |
| - Number of RLC logical channels | | 1 | | RCS1-104 |
| - Uplink transport channel type | | E-DCH | | RCS1-105 |
| - Logical channel identity | | 1 | | RCS1-106 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-107 |
| - DDI | | 1 | | RCS1-108 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RCS1-109 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-110 |
| - RLC PDU size | | 144 bits | | RCS1-111 |
| - Include in scheduling info | | FALSE | | RCS1-112 |
| - MAC logical channel priority | | 1 | | RCS1-113 |
| - Downlink RLC logical channel info | | | | RCS1-114 |
| - Number of RLC logical channels | | 1 | | RCS1-115 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-116 |
| - DL DCH Transport channel identity | | Not present | | RCS1-117 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-118 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS1-119 |
| - DL HS-DSCH MAC-ehs Queue Id | | 1 | | RCS1-120 |
| - Logical channel identity | | 1 | | RCS1-121 |
| - Signalling RB information to setup | A1 | (AM DCCH for RRC) | | RCS1-122 |
| - RB identity | | 2 | | RCS1-123 |
| - CHOICE RLC info type | | RLC info | | RCS1-124 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-125 |
| - Transmission RLC discard | | No Discard | | RCS1-126 |
| - CHOICE SDU discard mode | | | | RCS1-127 |
| - MAX_DAT | | 15 | | RCS1-128 |
| - Transmission window size | | 128 | | RCS1-129 |
| - Timer_RST | | 500 | | RCS1-130 |
| - Max_RST | | 1 | | RCS1-131 |
| - Polling info | | | | RCS1-132 |
| - Timer_poll_prohibit | | 200 | | RCS1-133 |
| - Timer_poll | | 200 | | RCS1-134 |
| - Poll_PDU | | Not present | | RCS1-135 |
| - Poll_SDU | | 1 | | RCS1-136 |
| - Last transmission PDU poll | | TRUE | | RCS1-137 |
| - Last retransmission PDU poll | | TRUE | | RCS1-138 |
| - Poll_Window | | 99 | | RCS1-139 |
| - Timer_poll_periodic | | Not Present | | RCS1-140 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-141 |
| - In-sequence delivery | | TRUE | | RCS1-142 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - Receiving window size | | 128 | | RCS1-143 |
| - Downlink RLC status info | | | | RCS1-144 |
| - Timer_status_prohibit | | 200 | | RCS1-145 |
| - Timer_EPC | | Not Present | | RCS1-146 |
| - Missing PDU indicator | | TRUE | | RCS1-147 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-148 |
| - RB mapping info | | | | RCS1-149 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS1-150 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-151 |
| - Number of RLC logical channels | | 1 | | RCS1-152 |
| - Uplink transport channel type | | DCH | | RCS1-153 |
| - UL Transport channel identity | | 5 | | RCS1-154 |
| - Logical channel identity | | 2 | | RCS1-155 |
| - CHOICE RLC size list | | Configure | | RCS1-156 |
| - MAC logical channel priority | | 2 | | RCS1-157 |
| - Downlink RLC logical channel info | | | | RCS1-158 |
| - Number of RLC logical channels | | 1 | | RCS1-159 |
| - Downlink transport channel type | | DCH | | RCS1-160 |
| - DL DCH Transport channel identity | | | | RCS1-161 |
| - Transport channel identity | | 10 | | RCS1-162 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-163 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-164 |
| - Logical channel identity | | 2 | | RCS1-165 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-166 |
| - Number of RLC logical channels | | 1 | | RCS1-167 |
| - Uplink transport channel type | | RACH | | RCS1-168 |
| - UL Transport channel identity | | Not Present | | RCS1-169 |
| - Logical channel identity | | 2 | | RCS1-170 |
| - CHOICE RLC size list | | Explicit List | | RCS1-171 |
| - RLC size index | | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) | | RCS1-172 |
| - MAC logical channel priority | | 2 | | RCS1-173 |
| - Downlink RLC logical channel info | | | | RCS1-174 |
| - Number of RLC logical channels | | 1 | | RCS1-175 |
| - Downlink transport channel type | | FACH | | RCS1-176 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-177 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-178 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-179 |
| - Logical channel identity | | 2 | | RCS1-180 |
| - Signalling RB information to setup | A2 | (AM DCCH for RRC) | Rel-6 | RCS1-181 |
| - RB identity | | 2 | | RCS1-182 |
| - CHOICE RLC info type | | RLC info | | RCS1-183 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-184 |
| - Transmission RLC discard | | | | RCS1-185 |
| - CHOICE SDU discard mode | | No Discard | | RCS1-186 |
| - MAX_DAT | | 15 | | RCS1-187 |
| - Transmission window size | | 128 | | RCS1-188 |
| - Timer_RST | | 500 | | RCS1-189 |
| - Max_RST | | 1 | | RCS1-190 |
| - Polling info | | | | RCS1-191 |
| - Timer_poll_prohibit | | 200 | | RCS1-192 |
| - Timer_poll | | 200 | | RCS1-193 |
| - Poll_PDU | | Not present | | RCS1-194 |
| - Poll_SDU | | 1 | | RCS1-195 |
| - Last transmission PDU poll | | TRUE | | RCS1-196 |
| - Last retransmission PDU poll | | TRUE | | RCS1-197 |
| - Poll_Window | | 99 | | RCS1-198 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------|-------------------------------------|----------------|----------------------|
| - Timer_poll_periodic | | Not Present | | RCS1-199 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-200 |
| - In-sequence delivery | | TRUE | | RCS1-201 |
| - Receiving window size | | 128 | | RCS1-202 |
| - Downlink RLC status info | | | | RCS1-203 |
| - Timer_status_prohibit | | 200 | | RCS1-204 |
| - Timer_EPC | | Not Present | | RCS1-205 |
| - Missing PDU indicator | | TRUE | | RCS1-206 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-207 |
| - RB mapping info | | | | RCS1-208 |
| - Information for each multiplexing option | | 1 RBmuxOption | | RCS1-209 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-210 |
| - Number of RLC logical channels | | 1 | | RCS1-211 |
| - Uplink transport channel type | | E-DCH | | RCS1-212 |
| - Logical channel identity | | 2 | | RCS1-213 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-214 |
| - DDI | | 2 | | RCS1-215 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-216 |
| - RLC PDU size | | 144 bits | | RCS1-217 |
| - Include in scheduling info | | FALSE | | RCS1-218 |
| - MAC logical channel priority | | 2 | | RCS1-219 |
| - Downlink RLC logical channel info | | | | RCS1-220 |
| - Number of RLC logical channels | | 1 | | RCS1-221 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-222 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-223 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-224 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS1-225 |
| - Logical channel identity | | 2 | | RCS1-226 |
| - Signalling RB information to setup | A3 A4, A5 | (AM DCCH for RRC) | Rel-7 Rel-8 | RCS1-227 RCS1-228 |
| - RB identity | | Not present | | RCS1-229 |
| - CHOICE RLC info type | | | | RCS1-230 |
| - RLC info | | | | RCS1-231 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-232 |
| - Transmission RLC discard | | | | RCS1-233 |
| - SDU discard mode | | No discard | | RCS1-234 |
| - MAX_DAT | | 15 | | RCS1-235 |
| - Transmission window size | | 32 | | RCS1-236 |
| - Timer_RST | | 500 | | RCS1-237 |
| - Max_RST | | 1 | | RCS1-238 |
| - Polling info | | | | RCS1-239 |
| - Timer_poll_prohibit | | 200 | | RCS1-240 |
| - Timer_poll | | 200 | | RCS1-241 |
| - Poll_PDU | | Not Present | | RCS1-242 |
| - Poll_SDU | | 1 | | RCS1-243 |
| - Last transmission PDU poll | | TRUE | | RCS1-244 |
| - Last retransmission PDU poll | | TRUE | | RCS1-245 |
| - Poll_Window | | 99 | | RCS1-246 |
| - Timer_poll_periodic | | Not Present | | RCS1-247 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-248 |
| - CHOICE Downlink RLC PDU | | Reference to clause 6 Parameter Set | | RCS1-249 |
| - Length indicator size | | 7 | | RCS1-250 |
| - In-sequence delivery | | TRUE | | RCS1-251 |
| - Receiving window size | | 32 | | RCS1-252 |
| - Downlink RLC status info | | | | RCS1-253 |
| - Timer_status_prohibit | | 200 | | RCS1-254 |
| - Timer_EPC | | Not Present | | RCS1-255 |
| - Missing PDU indicator | | TRUE | | RCS1-256 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-257 |
| - Alternative E-bit interpretation | | Not Present | | RCS1-258 |
| - Use special value of HE field | | TRUE | | RCS1-259 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|------------------------------------|----------|----------|
| <ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - CHOICE RLC PDU size - RLC PDU size list <ul style="list-style-type: none"> - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type <ul style="list-style-type: none"> - DL HS-DSCH MAC-ehs Queue Id <ul style="list-style-type: none"> - Logical channel identity | | 1 RBMuxOption | Rel-8 | RCS1-260 |
| | | RCS1-261 | | |
| | | Not Present | | RCS1-262 |
| | | 1 | | RCS1-263 |
| | | E-DCH | | RCS1-264 |
| | | 2 | | RCS1-265 |
| | | 1 | | RCS1-266 |
| | | 2 | | RCS1-267 |
| | | Fixed size | | RCS1-268 |
| | | 1 RLC PDU size | | RCS1-269 |
| | | 144 bits | | RCS1-270 |
| | | FALSE | | RCS1-271 |
| | | 2 | | RCS1-272 |
| | | | | RCS1-273 |
| | | 1 | | RCS1-274 |
| | | HS-DSCH | | RCS1-275 |
| | | Not Present | | RCS1-276 |
| | | Not Present | | RCS1-277 |
| | | MAC-ehs | | RCS1-278 |
| 1 | RCS1-279 | | | |
| 2 | RCS1-280 | | | |
| Signalling RB information to setup <ul style="list-style-type: none"> - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode <ul style="list-style-type: none"> - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit | A1 | (AM DCCH for NAS_DT High priority) | RCS1-281 | |
| | | 3 | RCS1-282 | |
| | | RLC info | RCS1-283 | |
| | | AM RLC | RCS1-284 | |
| | | No Discard | RCS1-285 | |
| | | 15 | RCS1-286 | |
| | | 128 | RCS1-287 | |
| | | 500 | RCS1-288 | |
| | | 1 | RCS1-289 | |
| | | | RCS1-290 | |
| | | 200 | RCS1-291 | |
| | | | RCS1-292 | |
| | | 200 | RCS1-293 | |
| - Poll_PDU | | Not present | RCS1-294 | |
| - Poll_SDU | | 1 | RCS1-295 | |
| - Last transmission PDU poll | | TRUE | RCS1-296 | |
| - Last retransmission PDU poll | | TRUE | RCS1-297 | |
| - Poll_Windows | | 99 | RCS1-298 | |
| - Timer_poll_periodic | | Not Present | RCS1-299 | |
| - CHOICE Downlink RLC mode | | AM RLC | RCS1-300 | |
| - In-sequence delivery | | TRUE | RCS1-301 | |
| - Receiving window size | | 128 | RCS1-302 | |
| - Downlink RLC status info | | | RCS1-303 | |
| - Timer_status_prohibit | | 200 | RCS1-304 | |
| - Timer_EPC | | Not Present | RCS1-305 | |
| - Missing PDU indicator | | TRUE | RCS1-306 | |
| - Timer_STATUS_periodic | | Not Present | RCS1-307 | |
| - RB mapping info | | | RCS1-308 | |
| - Information for each multiplexing option | | 2 RBMuxOptions | RCS1-309 | |
| - RLC logical channel mapping indicator | | Not Present | RCS1-310 | |
| - Number of RLC logical channels | | 1 | RCS1-311 | |
| - Uplink transport channel type | | DCH | RCS1-312 | |
| - UL Transport channel identity | | 5 | RCS1-313 | |
| - Logical channel identity | | 3 | RCS1-314 | |
| - CHOICE RLC size list | | Configured | RCS1-315 | |
| - MAC logical channel priority | | 3 | RCS1-316 | |
| - Downlink RLC logical channel info | | | RCS1-317 | |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| - Number of RLC logical channels | | 1 | | RCS1-318 |
| - Downlink transport channel type | | DCH | | RCS1-319 |
| - DL DCH Transport channel identity | | | | RCS1-320 |
| - Transport channel identity | | 10 | | RCS1-321 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-322 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-323 |
| - Logical channel identity | | 3 | | RCS1-324 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-325 |
| - Number of RLC logical channels | | 1 | | RCS1-326 |
| - Uplink transport channel type | | RACH | | RCS1-327 |
| - UL Transport channel identity | | Not Present | | RCS1-328 |
| - Logical channel identity | | 3 | | RCS1-329 |
| - CHOICE RLC size list | | Explicit List | | RCS1-330 |
| - RLC size index | | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) | | RCS1-331 |
| - MAC logical channel priority | | 3 | | RCS1-332 |
| - Downlink RLC logical channel info | | | | RCS1-333 |
| - Number of RLC logical channels | | 1 | | RCS1-334 |
| - Downlink transport channel type | | FACH | | RCS1-335 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-336 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-337 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-338 |
| - Logical channel identity | | 3 | | RCS1-339 |
| - Signalling RB information to setup | A2 | (AM DCCH for NAS_DT High priority) | | RCS1-340 |
| - RB identity | | 3 | | RCS1-341 |
| - CHOICE RLC info type | | RLC info | | RCS1-342 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-343 |
| - Transmission RLC discard | | | | RCS1-344 |
| - CHOICE SDU discard mode | | No Discard | | RCS1-345 |
| - MAX_DAT | | 15 | | RCS1-346 |
| - Transmission window size | | 128 | | RCS1-347 |
| - Timer_RST | | 500 | | RCS1-348 |
| - Max_RST | | 1 | | RCS1-349 |
| - Polling info | | | | RCS1-350 |
| - Timer_poll_prohibit | | 200 | | RCS1-351 |
| - Timer_poll | | 200 | | RCS1-352 |
| - Poll_PDU | | Not present | | RCS1-353 |
| - Poll_SDU | | 1 | | RCS1-354 |
| - Last transmission PDU poll | | TRUE | | RCS1-355 |
| - Last retransmission PDU poll | | TRUE | | RCS1-356 |
| - Poll_Windows | | 99 | | RCS1-357 |
| - Timer_poll_periodic | | Not Present | | RCS1-358 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-359 |
| - In-sequence delivery | | TRUE | | RCS1-360 |
| - Receiving window size | | 128 | | RCS1-361 |
| - Downlink RLC status info | | | | RCS1-362 |
| - Timer_status_prohibit | | 200 | | RCS1-363 |
| - Timer_EPC | | Not Present | | RCS1-364 |
| - Missing PDU indicator | | TRUE | | RCS1-365 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-366 |
| - RB mapping info | | | | RCS1-367 |
| - Information for each multiplexing option | | 1 RBmuxOption | | RCS1-368 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-369 |
| - Number of RLC logical channels | | 1 | | RCS1-370 |
| - Uplink transport channel type | | E-DCH | | RCS1-371 |
| - Logical channel identity | | 2 | | RCS1-372 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-373 |

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| - DDI | | 2 | | RCS1-374 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-375 |
| - RLC PDU size | | 144 bits | | RCS1-376 |
| - Include in scheduling info | | FALSE | | RCS1-377 |
| - MAC logical channel priority | | 2 | | RCS1-378 |
| - Downlink RLC logical channel info | | | | RCS1-379 |
| - Number of RLC logical channels | | 1 | | RCS1-380 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-381 |
| - DL DCH Transport channel | | Not Present | | RCS1-382 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RCS1-383 |
| identity | | | | |
| - DL HS-DSCH MAC-d flow | | 1 | | RCS1-384 |
| identity | | | | |
| - Logical channel identity | | 2 | | RCS1-385 |
| - Signalling RB information to setup | A3 | (AM DCCH for NAS_DT High priority) | Rel-7 | RCS1-386 |
| | A4, A5 | | Rel-8 | RCS1-387 |
| - RB identity | | Not present | | RCS1-388 |
| - CHOICE RLC info type | | | | RCS1-389 |
| - RLC info | | | | RCS1-390 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-391 |
| - Transmission RLC discard | | | | RCS1-392 |
| - SDU discard mode | | No discard | | RCS1-393 |
| - MAX_DAT | | 15 | | RCS1-394 |
| - Transmission window size | | 32 | | RCS1-395 |
| - Timer_RST | | 500 | | RCS1-396 |
| - Max_RST | | 1 | | RCS1-397 |
| - Polling info | | | | RCS1-398 |
| - Timer_poll_prohibit | | 200 | | RCS1-399 |
| - Timer_poll | | 200 | | RCS1-400 |
| - Poll_PDU | | Not Present | | RCS1-401 |
| - Poll_SDU | | 1 | | RCS1-402 |
| - Last transmission PDU poll | | TRUE | | RCS1-403 |
| - Last retransmission PDU poll | | TRUE | | RCS1-404 |
| - Poll_Window | | 99 | | RCS1-405 |
| - Timer_poll_periodic | | Not Present | | RCS1-406 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-407 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RCS1-408 |
| - Length indicator size | | 7 | | RCS1-409 |
| - In-sequence delivery | | TRUE | | RCS1-410 |
| - Receiving window size | | 32 | | RCS1-411 |
| - Downlink RLC status info | | | | RCS1-412 |
| - Timer_status_prohibit | | 200 | | RCS1-413 |
| - Timer_EPC | | Not Present | | RCS1-414 |
| - Missing PDU indicator | | TRUE | | RCS1-415 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-416 |
| - Alternative E-bit interpretation | | Not Present | | RCS1-417 |
| - Use special value of HE field | | TRUE | | RCS1-418 |
| - RB mapping info | | | | RCS1-419 |
| - Information for each multiplexing | | 1 RBMuxOption | | RCS1-420 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RCS1-421 |
| indicator | | | | |
| - Number of RLC logical channels | | 1 | | RCS1-422 |
| - Uplink transport channel type | | E-DCH | | RCS1-423 |
| - Logical channel identity | | 3 | | RCS1-424 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-425 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RCS1-426 |
| - DDI | | 2 | | RCS1-427 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-428 |
| - RLC PDU size | | 144 bits | | RCS1-429 |
| - Include in scheduling info | | FALSE | | RCS1-430 |
| - MAC logical channel priority | | 3 | | RCS1-431 |
| - Downlink RLC logical channel info | | | | RCS1-432 |
| - Number of RLC logical channels | | 1 | | RCS1-433 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-434 |
| - DL DCH Transport channel | | Not Present | | RCS1-435 |

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|---|-----------|--|---------|--|
| identity - DL DSCH Transport channel | | Not Present | | RCS1-436 |
| identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue | | MAC-ehs 1 | | RCS1-437 RCS1-438 |
| Id - Logical channel identity | | 3 | | RCS1-439 |
| - Signalling RB information to setup - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode | A1 | (AM DCCH for NAS_DT Low priority) 4 RLC info AM RLC No discard 15 128 500 1 200 200 Not present 1 TRUE TRUE 99 Not Present AM RLC | | RCS1-440 RCS1-441 RCS1-442 RCS1-443 RCS1-444 RCS1-445 RCS1-446 RCS1-447 RCS1-448 RCS1-449 RCS1-450 RCS1-451 RCS1-452 RCS1-453 RCS1-454 RCS1-455 RCS1-456 RCS1-457 RCS1-458 RCS1-459 |
| - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator | | TRUE 128 200 Not Present TRUE Not Present 2 RBMuxOptions Not Present | | RCS1-460 RCS1-461 RCS1-462 RCS1-463 RCS1-464 RCS1-465 RCS1-466 RCS1-467 RCS1-468 |
| - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel | | 1 DCH 5 4 Configured 4 1 DCH | | RCS1-470 RCS1-471 RCS1-472 RCS1-473 RCS1-474 RCS1-475 RCS1-476 RCS1-477 RCS1-478 RCS1-479 |
| identity - Transport channel identity - DL DSCH Transport channel | | 10 Not Present | | RCS1-480 RCS1-481 |
| identity - DL HS-DSCH MAC-d flow | | Not Present | | RCS1-482 |
| identity - Logical channel identity - RLC logical channel mapping indicator | | 4 Not Present | | RCS1-483 RCS1-484 |
| - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index | | 1 RACH Not Present 4 Explicit List According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) | | RCS1-485 RCS1-486 RCS1-487 RCS1-488 RCS1-489 RCS1-490 |
| - MAC logical channel priority | | 4 | | RCS1-491 |

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|--|-----------|-----------------------------------|---------|----------|
| - Downlink RLC logical channel info | | 1 | | RCS1-492 |
| - Number of RLC logical channels | | FACH | | RCS1-493 |
| - Downlink transport channel type | | Not Present | | RCS1-494 |
| - DL DCH Transport channel identity | | | | RCS1-495 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-496 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-497 |
| - Logical channel identity | | 4 | | RCS1-498 |
| - Signalling RB information to setup | A2 | (AM DCCH for NAS_DT Low priority) | | RCS1-499 |
| - RB identity | | 4 | | RCS1-500 |
| - CHOICE RLC info type | | RLC info | | RCS1-501 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-502 |
| - Transmission RLC discard | | | | RCS1-503 |
| - CHOICE SDU discard mode | | No discard | | RCS1-504 |
| - MAX_DAT | | 15 | | RCS1-505 |
| - Transmission window size | | 128 | | RCS1-506 |
| - Timer_RST | | 500 | | RCS1-507 |
| - Max_RST | | 1 | | RCS1-508 |
| - Polling info | | | | RCS1-509 |
| - Timer_poll_prohibit | | 200 | | RCS1-510 |
| - Timer_poll | | 200 | | RCS1-511 |
| - Poll_PDU | | Not present | | RCS1-512 |
| - Poll_SDU | | 1 | | RCS1-513 |
| - Last transmission PDU poll | | TRUE | | RCS1-514 |
| - Last retransmission PDU poll | | TRUE | | RCS1-515 |
| - Poll_Windows | | 99 | | RCS1-516 |
| - Timer_poll_periodic | | Not Present | | RCS1-517 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-518 |
| - In-sequence delivery | | TRUE | | RCS1-519 |
| - Receiving window size | | 128 | | RCS1-520 |
| - Downlink RLC status info | | | | RCS1-521 |
| - Timer_status_prohibit | | 200 | | RCS1-522 |
| - Timer_EPC | | Not Present | | RCS1-523 |
| - Missing PDU indicator | | TRUE | | RCS1-524 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-525 |
| - RB mapping info | | | | RCS1-526 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS1-527 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-528 |
| - Number of RLC logical channels | | 1 | | RCS1-529 |
| - Uplink transport channel type | | E-DCH | | RCS1-530 |
| - Logical channel identity | | 4 | | RCS1-531 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-532 |
| - DDI | | 4 | | RCS1-533 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-534 |
| - RLC PDU size | | 144 bits | | RCS1-535 |
| - Include in scheduling info | | FALSE | | RCS1-536 |
| - MAC logical channel priority | | 4 | | RCS1-537 |
| - Downlink RLC logical channel info | | | | RCS1-538 |
| - Number of RLC logical channels | | 1 | | RCS1-539 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-540 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-541 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-542 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS1-543 |
| - Logical channel identity | | 4 | | RCS1-544 |
| - RB mapping info | | | | RCS1-545 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RCS1-546 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-547 |
| - Number of RLC logical channels | | 1 | | RCS1-548 |

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|--|-----------|-------------------------------------|----------------|----------------------|
| - Uplink transport channel type | | E-DCH | | RCS1-549 |
| - Logical channel identity | | 4 | | RCS1-550 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-551 |
| - DDI | | 4 | | RCS1-552 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-553 |
| - RLC PDU size | | 144 bits | | RCS1-554 |
| - Include in scheduling info | | FALSE | | RCS1-555 |
| - MAC logical channel priority | | 4 | | RCS1-556 |
| - Downlink RLC logical channel info | | | | RCS1-557 |
| - Number of RLC logical channels | | 1 | | RCS1-558 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-559 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-560 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-561 |
| - DL HS-DSCH MAC-d flow identity | | 1 | | RCS1-562 |
| - Logical channel identity | | 4 | | RCS1-563 |
| - Signalling RB information to setup | A3, A5 | (AM DCCH for NAS DT Low priority) | Rel-7 Rel-8 | RCS1-564 RCS1-565 |
| - RB identity | | Not present | | RCS1-566 |
| - CHOICE RLC info type | | | | RCS1-567 |
| - RLC info | | | | RCS1-568 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-569 |
| - Transmission RLC discard | | | | RCS1-570 |
| - SDU discard mode | | No discard | | RCS1-571 |
| - MAX_DAT | | 15 | | RCS1-572 |
| - Transmission window size | | 32 | | RCS1-573 |
| - Timer_RST | | 500 | | RCS1-574 |
| - Max_RST | | 1 | | RCS1-575 |
| - Polling info | | | | RCS1-576 |
| - Timer_poll_prohibit | | 200 | | RCS1-577 |
| - Timer_poll | | 200 | | RCS1-578 |
| - Poll_PDU | | Not Present | | RCS1-579 |
| - Poll_SDU | | 1 | | RCS1-580 |
| - Last transmission PDU poll | | TRUE | | RCS1-581 |
| - Last retransmission PDU poll | | TRUE | | RCS1-582 |
| - Poll_Window | | 99 | | RCS1-583 |
| - Timer_poll_periodic | | Not Present | | RCS1-584 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-585 |
| - CHOICE Downlink RLC PDU Size | | Reference to clause 6 Parameter Set | | RCS1-586 |
| - Length indicator size | | 7 | | RCS1-587 |
| - In-sequence delivery | | TRUE | | RCS1-588 |
| - Receiving window size | | 32 | | RCS1-589 |
| - Downlink RLC status info | | | | RCS1-590 |
| - Timer_status_prohibit | | 200 | | RCS1-591 |
| - Timer_EPC | | Not Present | | RCS1-592 |
| - Missing PDU indicator | | TRUE | | RCS1-593 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-594 |
| - Alternative E-bit interpretation | | Not Present | | RCS1-595 |
| - Use special value of HE field | | TRUE | | RCS1-596 |
| - RB mapping info | | | | RCS1-597 |
| - Information for each multiplexing option | | 1 RBmuxOption | | RCS1-598 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-599 |
| - Number of RLC logical channels | | 1 | | RCS1-600 |
| - Uplink transport channel type | | E-DCH | | RCS1-601 |
| - Logical channel identity | | 4 | | RCS1-602 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-603 |
| - CHOICE RLC PDU size | | Fixed size | Rel-8 | RCS1-604 |
| - DDI | | 2 | | RCS1-605 |
| - RLC PDU size list | | 1 RLC PDU size | | RCS1-606 |
| - RLC PDU size | | 144 bits | | RCS1-607 |
| - Include in scheduling info | | FALSE | | RCS1-608 |
| - MAC logical channel priority | | 4 | | RCS1-609 |
| - Downlink RLC logical channel info | | | | RCS1-610 |

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|---|----------------|---|---------|----------|
| identity identity Id | | 1 | | RCS1-611 |
| | | HS-DSCH | | RCS1-612 |
| | | Not Present | | RCS1-613 |
| | | Not Present | | RCS1-614 |
| - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue | | MAC-ehs | | RCS1-615 |
| | | 1 | | RCS1-616 |
| - Logical channel identity | | 4 | | RCS1-617 |
| - UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - UL TFCS ID - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - CTFC - Power offset - CHOICE Gain - Reference TFC - CHOICE Gain Information Factors ID Factors | A1 | Not Present | | RCS1-618 |
| | | TDD | | RCS1-619 |
| | | (This IE is repeated for TFC number.) | | RCS1-620 |
| | | 1 | | RCS1-621 |
| | | FALSE | | RCS1-622 |
| | | Normal | | RCS1-623 |
| | | Complete reconfiguration | | RCS1-624 |
| | | | | RCS1-625 |
| | | | | RCS1-626 |
| | | | | RCS1-627 |
| | | | | RCS1-628 |
| | | | | RCS1-629 |
| | | | | RCS1-630 |
| | | | | RCS1-631 |
| | RCS1-632 | | | |
| | RCS1-633 | | | |
| | RCS1-634 | | | |
| | RCS1-635 | | | |
| | RCS1-636 | | | |
| - CHOICE mode - Gain Factor - Reference - CHOICE mode - TFC subset - CHOICE Subset representation - Allowed Transport Format combination - Transport format combination - TFC subset list - Added or Reconfigured UL TrCH information list - UL Transport channel information for all transport channels | A2, A3, A4, A5 | TDD | | RCS1-637 |
| | | 15 | | RCS1-638 |
| | | 0, Integer (0..3) | | RCS1-639 |
| | | TDD | | RCS1-640 |
| | | Default value is the complete existing set of transport format combinations | | RCS1-641 |
| | | Allowed transport format combination list | | RCS1-642 |
| | | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RCS1-643 |
| | | Integer (0.. 1023) | | RCS1-644 |
| | | Not present | | RCS1-645 |
| | | | | RCS1-646 |
| | RCS1-647 | | | |
| | RCS1-648 | | | |
| | RCS1-649 | | | |
| | Rel-6 | | | |
| | Rel-7 | | | |
| | Rel-8 | | | |

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|---|-----------|--|----------------|----------------------|
| - Added or Reconfigured UL TrCH information | A1 | | | RCS1-650 |
| - Uplink transport channel type | | DCH | | RCS1-651 |
| - UL Transport channel identity | | 5 | | RCS1-652 |
| - TFS | | | | RCS1-653 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RCS1-654 |
| - Dynamic Transport format information | | | | RCS1-655 |
| - RLC size | | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) | | RCS1-656 |
| - Number of TBs and TTI lists | | (This IE is repeated for TFI number) | | RCS1-657 |
| - Transmission Time Interval | | Not Present | | RCS1-658 |
| - Number of Transport blocks | | Reference to clause 6.11 Parameter Set | | RCS1-659 |
| - CHOICE Logical channel list | | All | | RCS1-660 |
| - Semi-static Transport Format information | | | | RCS1-661 |
| - Transmission time interval | | Reference to clause 6.11 Parameter Set | | RCS1-662 |
| - Type of channel coding | | Reference to clause 6.11 Parameter Set | | RCS1-663 |
| - Coding Rate | | Reference to clause 6.11 Parameter Set | | RCS1-664 |
| - Rate matching attribute | | Reference to clause 6.11 Parameter Set | | RCS1-665 |
| - Added or Reconfigured UL TrCH information | A2, A3 | 1 E-DCH added with one DCCH MAC-d flow | Rel-6 Rel-7 | RCS1-666 RCS1-667 |
| - Uplink transport channel type | | E-DCH | | RCS1-668 |
| - CHOICE UL parameters | | E-DCH | | RCS1-669 |
| -CHOICE mode | | TDD | Rel-7 | RCS1-670 |
| - HARQ info for E-DCH | | | Rel-7 | RCS1-671 |
| - HARQ RV Configuration | | rvtable | Rel-7 | RCS1-672 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RCS1-673 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-674 |
| - E-DCH MAC-d flow power offset | | 0 | | RCS1-675 |
| - E-DCH MAC-d flow maximum | | 7 | | RCS1-676 |
| number of retransmissions | | | | |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RCS1-677 |
| - CHOICE transmission grant type | | Non-scheduled grant info | Rel-6 | RCS1-678 |
| -CHOICE mode | | TDD | Rel-7 | RCS1-679 |
| -CHOICE <i>TDD Option</i> | | 1.28 Mcps TDD | Rel-7 | RCS1-680 |
| -NE-UCCH | | 1 | Rel-7 | RCS1-681 |
| -Timeslot Resource Related Information | | 00001 | Rel-7 | RCS1-682 |
| -Power Resource Related Information | | 32 | Rel-7 | RCS1-683 |
| -Activation Time | | now | Rel-7 | RCS1-684 |
| -Subframe number | | 1 | Rel-7 | RCS1-685 |
| -Repetition period | | 1 | Rel-7 | RCS1-686 |
| -Repetition Length | | 0 | Rel-7 | RCS1-687 |
| -Code Resource Information | | 4/1 | Rel-7 | RCS1-688 |
| -E-HICH Information | | Not present | Rel-7 | RCS1-689 |
| -Timeslot number | | 1 | | RCS1-690 |
| - Channelisation code | | 16/1 | | RCS1-691 |
| - Midamble Allocation mode | | Default midamble | | RCS1-692 |
| - Midamble configuration | | 8 (k=16) | | RCS1-693 |
| - Midamble Shift | | Not present | | RCS1-694 |
| - Signature Sequence Group Index | | 0 | | RCS1-695 |
| Added or Reconfigured UL TrCH information | A4, A5 | 1 E-DCH added with one DCCH MAC-d flow | Rel-8 | RCS1-696 |
| - Uplink transport channel type | | E-DCH | | RCS1-697 |
| - CHOICE UL parameters | | E-DCH | | RCS1-698 |
| - UL MAC header type | | MAC-i/is | | RCS1-699 |
| - HARQ info for E-DCH | | | | RCS1-700 |
| - HARQ RV Configuration | | rvtable | | RCS1-701 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RCS1-702 |
| - E-DCH MAC-d flow identity | | 1 | | RCS1-703 |
| - E-DCH MAC-d flow power offset | | 0 | | RCS1-704 |
| - E-DCH MAC-d flow maximum | | 7 | | RCS1-705 |
| number of retransmissions | | | | |

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| - E-DCH MAC-d flow multiplexing list | | Not Present | | RCS1-706 |
| - CHOICE transmission grant type | | Scheduled grant info | | RCS1-707 |
| DL Transport channel information common for all transport channel | | | | RCS1-708 |
| - SCCPCH TFCS | | Not Present | | RCS1-709 |
| - CHOICE mode | | TDD | | RCS1-710 |
| -Individual DL CCTrCH information | | | | RCS1-711 |
| - DL TFCS Identity | | | | RCS1-712 |
| - TFCS ID | | 1 | | RCS1-713 |
| - Shared Channel Indicator | | FALSE | | RCS1-714 |
| - CHOICE DL parameters | | Same as UL | | RCS1-715 |
| DL Transport channel information common for all transport channel | A2, A3, A4, A5 | Not Present | Rel-7 | RCS1-716 |
| - Added or Reconfigured TrCH information list | A1 | | Rel-8 | RCS1-717 |
| - Added or Reconfigured DL TrCH information | | | | RCS1-719 |
| - Downlink transport channel type | | DCH | | RCS1-720 |
| - DL Transport channel identity | | 10 | | RCS1-721 |
| - CHOICE DL parameters | | Same as UL | | RCS1-722 |
| - Uplink transport channel type | | DCH | | RCS1-723 |
| - UL Transport channel identity | | 5 | | RCS1-724 |
| -DCH quality target | | | | RCS1-725 |
| - BLER Quality value | | -63 (-6.3) | | RCS1-726 |
| - Added or Reconfigured TrCH information list | A2 | | | RCS1-727 |
| - Added or Reconfigured DL TrCH information | | | | RCS1-728 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-729 |
| - DL Transport channel identity | | 10 | | RCS1-730 |
| - CHOICE DL parameters | | HS-DSCH | | RCS1-731 |
| - Added or reconfigured MAC-d flow | | | | RCS1-732 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RCS1-733 |
| - MAC-hs queue Id | | 1 (for DCCH) | | RCS1-734 |
| - MAC-d Flow Identity | | 1 | | RCS1-735 |
| - T1 | | 50 | | RCS1-736 |
| - MAC-hs window size | | Integer(32, 64, 96, 128, 160, 192, 256) | Rel-7 | RCS1-737 |
| - MAC-d PDU size Info | | | | RCS1-738 |
| - MAC-d PDU size | | 148 | | RCS1-739 |
| - MAC-d PDU size index | | 0 | | RCS1-740 |
| - MAC-hs queue to delete list | | Not present | | RCS1-741 |
| - DCH quality target | | Not present | | RCS1-742 |
| - Added or reconfigured MAC-d flow | | | | RCS1-743 |
| Added or Reconfigured DL TrCH information | A3 | 1 TrCH (HS-DSCH for DCCH) | Rel-7 | RCS1-744 |
| | A4 | | Rel-8 | RCS1-745 |
| - Downlink transport channel type | | HS-DSCH | | RCS1-746 |
| - DL Transport channel identity | | Not Present | | RCS1-747 |
| - CHOICE DL parameters | | HS-DSCH | | RCS1-748 |
| - HARQ Info | | | | RCS1-749 |
| - Number of Processes | | Reference to clause 6.11.5.4.6 Parameter Set | | RCS1-750 |
| - CHOICE Memory Partitioning | | Implicit | | RCS1-751 |
| - CHOICE DL MAC header type | | MAC-ehs | | RCS1-752 |
| - Added or reconfigured MAC-ehs reordering queue | | | | RCS1-753 |
| - MAC-ehs queue to add or reconfigure list | | (1 queue) | | RCS1-754 |
| - MAC-ehs queue Id | | 1 | | RCS1-755 |
| - T1 | | 50 | | RCS1-756 |
| - MAC-ehs window size | | 16 | | RCS1-757 |
| - MAC-ehs queue to delete list | | Not present | | RCS1-758 |
| - DCH quality target | | Not present | | RCS1-759 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------|---|----------------|----------------------|
| Added or Reconfigured DL TrCH information | A5 | Not present | Rel-8 | RCS1-760 |
| Frequency info | | Not Present | | RCS1-761 |
| Multi-frequency Info | | Not Present | Rel-7 | RCS1-761a |
| SPS Information | | Not Present | Rel-8 | RCS1-761b |
| MU-MIMO info | | Not Present | Rel-10 | RCS1-761c |
| Maximum allowed UL TX power | | 33dBm | | RCS1-762 |
| CHOICE channel requirement | A1 | Uplink DPCH info | | RCS1-763 |
| - Uplink DPCH power control info | | | | RCS1-764 |
| - CHOICE mode | | TDD | | RCS1-765 |
| - UL target SIR | | 25 dB | | RCS1-766 |
| - CHOICE <i>UL OL PC info</i> | | Individually signalled | | RCS1-768 |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | | RCS1-769 |
| - TPC step size | | 1 dB | | RCS1-770 |
| - Primary CCPCH Tx Power | | Not Present | | RCS1-771 |
| - CHOICE mode | | TDD | | RCS1-772 |
| - Uplink Timing Advance Control | | | | RCS1-773 |
| - CHOICE Timing Advance | | Enabled | | RCS1-774 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-775 |
| - Uplink synchronization | | | | RCS1-776 |
| parameters | | | | |
| - Uplink synchronization step size | | 1 | | RCS1-777 |
| frequency | | | | |
| - Uplink synchronization | | 1 | | RCS1-778 |
| - Synchronization parameters | | Not present | | RCS1-779 |
| - UL CTrCH List | | | | RCS1-780 |
| - TFCS ID | | 1 | | RCS1-781 |
| - UL Target SIR | | 25 dB | | RCS1-782 |
| - Time info | | | | RCS1-783 |
| - Activation time | | Not present | | RCS1-784 |
| - Duration | | Not present | | RCS1-785 |
| - Common timeslot info | | | | RCS1-786 |
| - 2 nd interleaving mode | | Reference to clause 6 Parameter Set | | RCS1-787 |
| - TFCI coding | | Reference to clause 6 Parameter Set | | RCS1-788 |
| - Puncturing Limit | | Reference to clause 6 Parameter Set | | RCS1-789 |
| - Repetition Period | | | | RCS1-790 |
| - Repetition Length | | null | | RCS1-791 |
| - Uplink DPCH timeslots and codes | | | | RCS1-792 |
| - Dynamic SF usage | | FALSE | | RCS1-793 |
| - First individual timeslot info | | | | RCS1-794 |
| - Timeslot number | | | | RCS1-795 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-796 |
| - Timeslot number | | 1 OR 2 OR 3 | | RCS1-797 |
| - TFCI existence | | TRUE | | RCS1-798 |
| - Midamble shift and burst type | | | | RCS1-799 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-800 |
| - Midamble allocation | | Default midamble | | RCS1-801 |
| mode | | | | |
| - Midamble configuration | | 8 (k=16) | | RCS1-802 |
| - Midamble Shift | | Not Present | | RCS1-803 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-804 |
| - Modulation | | QPSK | | RCS1-805 |
| - SS-TPC Symbols | | 1 | | RCS1-806 |
| - Additional TPC-SS | | Not present | | RCS1-807 |
| Symbols | | | | |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RCS1-808 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RCS1-809 |
| - CHOICE more timeslots | | No more timeslots | | RCS1-810 |
| - UL CTrCH List to Remove | | Not present | | RCS1-811 |
| CHOICE channel requirement | A2, A3, A4 | Uplink DPCH info | Rel-7 Rel-8 | RCS1-812 RCS1-813 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-----------|---|---------|----------|
| - Uplink DPCH power control info | | TDD | | RCS1-814 |
| - CHOICE mode | | 25 dB | | RCS1-815 |
| - UL target SIR | | Individually signalled | | RCS1-816 |
| - CHOICE <i>UL OL PC info</i> | | 1.28 Mcps TDD | | RCS1-818 |
| - CHOICE <i>TDD option</i> | | 1 dB | | RCS1-819 |
| - TPC step size | | Not Present | | RCS1-820 |
| - Primary CCPCH Tx Power | | TDD | | RCS1-821 |
| - CHOICE mode | | Enabled | | RCS1-822 |
| - Uplink Timing Advance Control | | 1.28 Mcps TDD | | RCS1-823 |
| - CHOICE Timing Advance | | 1 | | RCS1-824 |
| - CHOICE TDD option | | 1 | | RCS1-825 |
| - Uplink synchronization | | Not present | | RCS1-826 |
| parameters | | | | |
| - Uplink synchronization step | | | | RCS1-827 |
| size | | | | |
| - Uplink synchronization | | | | RCS1-828 |
| frequency | | | | |
| - Synchronization parameters | | | | RCS1-829 |
| - UL CCTrCH List | | | | RCS1-830 |
| - TFCS ID | | | | RCS1-831 |
| - UL Target SIR | | | | RCS1-832 |
| - Time info | | | | RCS1-833 |
| - Activation time | | | | RCS1-834 |
| - Duration | | | | RCS1-835 |
| - Common timeslot info | | | | RCS1-836 |
| - 2 nd interleaving mode | | Reference to clause 6 Parameter Set | | RCS1-837 |
| - TFCI coding | | Reference to clause 6 Parameter Set | | RCS1-838 |
| - Puncturing Limit | | Reference to clause 6 Parameter Set | | RCS1-839 |
| - Repetition Period | | | | RCS1-840 |
| - Repetition Length | | null | | RCS1-841 |
| - Uplink DPCH timeslots and | | | | RCS1-842 |
| codes | | | | |
| - Dynamic SF usage | | FALSE | | RCS1-843 |
| - First individual timeslot info | | | | RCS1-844 |
| - Timeslot number | | | | RCS1-845 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-846 |
| - Timeslot number | | 1 OR 2 OR 3 | | RCS1-847 |
| - TFCI existence | | TRUE | | RCS1-848 |
| - Midamble shift and burst type | | | | RCS1-849 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-850 |
| - Midamble allocation | | Default midamble | | RCS1-851 |
| mode | | | | |
| - Midamble configuration | | 8 (k=16) | | RCS1-852 |
| - Midamble Shift | | Not Present | | RCS1-853 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-854 |
| - Modulation | | QPSK | | RCS1-855 |
| - SS-TPC Symbols | | 1 | | RCS1-856 |
| - Additional TPC-SS | | Not present | | RCS1-857 |
| Symbols | | | | |
| - First timeslot Code List | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RCS1-858 |
| - channelisation codes | | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RCS1-859 |
| - CHOICE more timeslots | | No more timeslots | | RCS1-860 |
| - UL CCTrCH List to Remove | | Not present | | RCS1-861 |
| CHOICE channel requirement | A5 | Not Present | Rel-8 | RCS1-862 |
| E-DCH Info | A1 | Not Present | Rel-6 | RCS1-863 |
| | A5 | | Rel-8 | RCS1-864 |
| E-DCH info | A2, A3 | | Rel-7 | RCS1-865 |
| | , A4 | | Rel-8 | RCS1-866 |
| - MAC-es/e reset indicator | | TRUE | | RCS1-867 |
| - CHOICE mode | | TDD | | RCS1-868 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-869 |
| -E-RUCCH Info | | | | RCS1-870 |
| -T-RUCCH | | 200ms | | RCS1-871 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|------------------|---------|----------|
| - N-RUCCH | | 3 | | RCS1-872 |
| - T-WAIT | | 40ms | | RCS1-873 |
| -E-PUCH Info | | | | RCS1-874 |
| -E-TFCS info | | | | RCS1-875 |
| -Reference Beta Information QPSK list | | 1 | | RCS1-876 |
| -Reference Code Rate | | 1 | | RCS1-877 |
| -Reference Beta | | 0 | | RCS1-878 |
| -Reference Beta Information 16QAM list | | 1 | | RCS1-879 |
| -Reference Code Rate | | 6 | | RCS1-880 |
| -Reference Beta | | 0 | | RCS1-881 |
| -CHOICE TDD mode | | 1.28 Mcps TDD | | RCS1-882 |
| -SNPL Reporting Type | | Type1 | | RCS1-883 |
| -PRXdes_base | | -100 | | RCS1-884 |
| -Beacon PL Est. | | FALSE | | RCS1-885 |
| -TPC step size | | 1 | | RCS1-886 |
| -Uplink synchronisation parameters | | | | RCS1-887 |
| -Uplink synchronisation step size | | 1 | | RCS1-888 |
| -Uplink synchronisation frequency | | 1 | | RCS1-889 |
| -E-PUCH TS configuration list | | 1 | | RCS1-890 |
| -TS number | | 1 | | RCS1-891 |
| -Midamble shift and burst type | | | | RCS1-892 |
| -Midamble Allocation Mode | | Default midamble | | RCS1-893 |
| -Midamble configuration | | 8 (k=16) | | RCS1-894 |
| -Midamble Shift | | Not present | | RCS1-895 |
| -Minimum allowed code rate | | 0 | | RCS1-896 |
| -Maximum allowed code rate | | 63 | | RCS1-897 |
| Downlink HS-PDSCH Information | A1 | Not Present | Rel-6 | RCS1-898 |
| Downlink HS-PDSCH Information | A2, A3 | | Rel-7 | RCS1-899 |
| | , A4, A5 | | Rel-8 | RCS1-900 |
| - HS-SCCH Info | | | | RCS1-901 |
| - CHOICE mode | | TDD | | RCS1-902 |
| - CHOICE TDD option | | 1.28 Mcps | | RCS1-903 |
| - HS-SCCH Set Configuration | | | | RCS1-904 |
| - Timeslot number | | 6 | | RCS1-905 |
| - First Channelisation code | | (16/11) | | RCS1-906 |
| - Second Channelisation code | | (16/12) | | RCS1-907 |
| - Midamble Allocation mode | | Default midamble | | RCS1-908 |
| - Midamble configuration | | 8 (k=16) | | RCS1-909 |
| - BLER target | | -2.0 | | RCS1-910 |
| - HS-SICH configuration | | | | RCS1-911 |
| - Timeslot number | | 1 | | RCS1-912 |
| - Channelisation code | | (16/13) | | RCS1-913 |
| - Midamble Allocation mode | | Default midamble | | RCS1-914 |
| - Midamble configuration | | 8 (k=16) | | RCS1-915 |
| - Ack-Nack Power Offset | | 0 | | RCS1-916 |
| - PRX _{HS-SICH} | | | | RCS1-917 |
| - TPC step size | | 1dB | | RCS1-918 |
| - CHOICE mode | | TDD | | RCS1-947 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-948 |
| - HS-PDSCH Midamble Configuration | | | | RCS1-949 |
| - Midamble Allocation Mode | | Default midamble | | RCS1-950 |
| - Midamble Configuration | | 8 (k=16) | | RCS1-951 |
| - Midamble Shift | | Not present | | RCS1-952 |
| Downlink information common for all radio links | A1 | | | RCS1-953 |
| - Downlink DPCH info common for all RL | | | | RCS1-954 |
| - Timing indication | | Initialize | | RCS1-955 |
| - CFN-targetSFN frame offset | | Not Present | | RCS1-956 |
| - Downlink DPCH power control information | | | | RCS1-957 |
| - CHOICE mode | | TDD | | RCS1-958 |
| - TPC Step Size | | 1 dB | | RCS1-959 |
| - MAC-d HFN initial value | | Not Present | | RCS1-960 |
| - CHOICE mode | | TDD (no data) | | RCS1-961 |
| - CHOICE mode | | TDD | | RCS1-962 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-963 |

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|---|------------|--|----------------|--|
| - TSTD indicator | | FALSE | | RCS1-964 |
| - Default DPCH Offset Value | | Not Present | | RCS1-965 |
| Downlink information common for all radio links | A2, A3, A4 | | Rel-5 Rel-8 | RCS1-966 RCS1-967 RCS1-968 RCS1-969 RCS1-970 RCS1-971 |
| - Downlink DPCH info common for all RL | | Initialize | | RCS1-972 |
| - Timing indication | | Not Present | | RCS1-973 |
| - CFN-targetSFN frame offset | | | | RCS1-974 |
| - Downlink DPCH power control information | | | | RCS1-975 |
| - CHOICE mode | | TDD | | RCS1-976 |
| - TPC Step Size | | 1 | | RCS1-977 |
| - MAC-d HFN initial value | | Not Present | | RCS1-978 |
| - CHOICE mode | | TDD | | RCS1-979 |
| - CHOICE mode | | TDD | | RCS1-980 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-981 |
| - TSTD indicator | | FALSE | | RCS1-982 |
| - Default DPCH Offset Value | | Not Present | | RCS1-983 |
| - MAC-hs reset indicator | | TRUE | | RCS1-984 |
| Downlink information common for all radio links | A5 | Not present | Rel-8 | RCS1-985 |
| Downlink information for each radio link list | A1 | | | RCS1-986 |
| - Downlink information for each radio link | | | | RCS1-987 |
| - Choice mode | | TDD | | RCS1-988 |
| - Primary CCPCH info | | | | RCS1-989 |
| - CHOICE mode | | TDD | | RCS1-990 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-991 |
| - TSTD indicator | | FALSE | | RCS1-992 |
| - Cell parameters ID | | Not present | | RCS1-993 |
| - SCTD indicator | | FALSE | | RCS1-994 |
| - Downlink DPCH info for each RL | | | | RCS1-995 |
| - CHOICE mode | | TDD | | RCS1-996 |
| - DL CCTrCH List | | | | RCS1-997 |
| - TFCS ID | | 1 | | RCS1-998 |
| - Time info | | | | RCS1-999 |
| - Activation time | | Not present | | RCS1-1000 |
| - Duration | | Not present | | RCS1-1001 |
| - Common timeslot info | | | | RCS1-1002 |
| - 2 nd interleaving mode | | Reference to clause 6.11 Parameter set | | RCS1-1003 |
| - TFCI coding | | Reference to clause 6.11 Parameter set | | RCS1-1004 |
| - Puncturing limit | | Reference to clause 6.11 Parameter set | | RCS1-1005 |
| - Repetition period | | 1 | | RCS1-1006 |
| - Repetition length | | NULL | | RCS1-1007 |
| - Downlink DPCH timeslots and codes | | | | RCS1-1008 |
| - First Individual timeslot info | | | | RCS1-1009 |
| - Timeslot number | | | | RCS1-1010 |
| - CHOICE more timeslots | | | | RCS1-1011 |
| - CHOICE TDD option | | 1.28 McpsTDD | | RCS1-1012 |
| - Timeslot number | | 4 OR 5 OR 6 | | RCS1-1013 |
| - Individual timeslot info | | | | RCS1-1014 |
| - TFCI existence | | TRUE | | RCS1-1015 |
| - Midamble shift and burst type | | | | RCS1-1016 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-1017 |
| -Midamble | | Default | | RCS1-1018 |
| Allocation Mode | | | | RCS1-1019 |
| - Midamble | | 8 (k=16) | | RCS1-1020 |
| configuration | | | | RCS1-1021 |
| - Midamble Shift | | Not present | | RCS1-1022 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-1023 |
| - Modulation | | QPSK | | RCS1-1024 |
| - SS-TPC Symbols | | 1 | | RCS1-1025 |
| - Additional TPC-SS | | Not present | | RCS1-1026 |
| Symbols | | | | RCS1-1027 |

| Information Element | Condition | Value/remark | Version | Index |
|---|------------|--|--------------------|-----------|
| - First timeslot | | | | RCS1-1021 |
| channelisation codes | | | | |
| - CHOICE codes | | Consecutive codes | | RCS1-1022 |
| representation | | | | |
| - First channelisation code | | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. | | RCS1-1023 |
| - Last channelisation code | | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS1-1024 |
| - CHOICE more timeslots | | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RCS1-1025 |
| - UL CCTrCH TPC List | | 1 | | RCS1-1026 |
| - UL TPC TFCS Identity | | Not present | | RCS1-1027 |
| - DL CCTrCH List to Remove | | Not Present | | RCS1-1028 |
| - SCCPCH information for | | | | RCS1-1029 |
| FACH | | | R99 and Rel-4 only | |
| Downlink information for each radio link list | A2, A3, A4 | | Rel-7 | RCS1-1030 |
| - Downlink information for each radio link | | | Rel-8 | RCS1-1031 |
| - Choice mode | | TDD | | RCS1-1032 |
| - Primary CCPCH info | | | | RCS1-1033 |
| - CHOICE mode | | TDD | | RCS1-1034 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-1035 |
| - TSTD indicator | | FALSE | | RCS1-1036 |
| - Cell parameters ID | | Not present | | RCS1-1037 |
| - SCTD indicator | | FALSE | | RCS1-1038 |
| - Downlink DPCH info for each RL | | | | RCS1-1039 |
| - CHOICE mode | | TDD | | RCS1-1040 |
| - DL CCTrCH List | | | | RCS1-1041 |
| - TFCS ID | | 1 | | RCS1-1042 |
| - Time info | | | | RCS1-1043 |
| - Activation time | | (256+CFN-(CFN mod 8 + 8))mod 256 | | RCS1-1044 |
| - Duration | | infinite | | RCS1-1045 |
| - Common timeslot info | | | | RCS1-1046 |
| - 2nd interleaving mode | | Reference to clause 6.11 Parameter set | | RCS1-1047 |
| - TFCI coding | | Reference to clause 6.11 Parameter set | | RCS1-1048 |
| - Puncturing limit | | Reference to clause 6.11 Parameter set | | RCS1-1049 |
| - Repetition period | | 1 | | RCS1-1050 |
| - Repetition length | | NULL | | RCS1-1051 |
| - Downlink DPCH timeslots | | | | RCS1-1052 |
| and codes | | | | RCS1-1053 |
| - First Individual timeslot | | | | RCS1-1054 |
| info | | | | |
| - Timeslot number | | | | RCS1-1055 |
| - CHOICE more timeslots | | | | RCS1-1056 |
| - CHOICE TDD option | | 1.28 McpsTDD | | RCS1-1057 |
| - Timeslot number | | 4 OR 5 OR 6 | | RCS1-1058 |
| - Individual timeslot | | | | RCS1-1059 |
| info | | | | |
| - TFCI existence | | TRUE | | RCS1-1060 |
| - Midamble shift and | | | | RCS1-1061 |
| burst type | | | | |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-1062 |
| -Midamble | | Default | | RCS1-1063 |
| Allocation Mode | | | | |
| - Midamble | | 8 (k=16) | | RCS1-1064 |
| configuration | | | | |
| - Midamble Shift | | Not present | | RCS1-1065 |
| - CHOICE TDD option | | 1.28 Mcps TDD | | RCS1-1066 |
| - Modulation | | QPSK | | RCS1-1067 |
| - SS-TPC Symbols | | 1 | | RCS1-1068 |
| - Additional TPC-SS | | Not present | | RCS1-1069 |
| Symbols | | | | |
| - First timeslot | | | | RCS1-1070 |
| channelisation codes | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|--------------------|-----------|
| representation | | Consecutive codes | | RCS1-1071 |
| - CHOICE codes | | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set. | | RCS1-1072 |
| - First channelisation code | | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS1-1073 |
| - Last channelisation code | | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RCS1-1074 |
| - CHOICE more timeslots | | | | |
| - UL CCTrCH TPC List | | 1 | | RCS1-1075 |
| - UL TPC TFCS Identity | | Not present | | RCS1-1076 |
| - DL CCTrCH List to Remove | | Not Present | | RCS1-1077 |
| -SCCPCH information for | | | R99 and Rel-4 only | RCS1-1078 |
| FACH | | | | |
| -E-AGCH info | | | | RCS1-1079 |
| - CHOICE mode | | | | RCS1-1080 |
| -CHOICE TDD option | | 1.28 Mcps TDD | Rel-7 | RCS1-1081 |
| -RDI Indicator | | False | Rel-7 | RCS1-1082 |
| -TPC step size | | 1 | Rel-7 | RCS1-1083 |
| -E-AGCH set configuration | | 1 | Rel-7 | RCS1-1084 |
| -Timeslot number | | 6 | Rel-7 | RCS1-1085 |
| -First Channelisation code | | 16/13 | Rel-7 | RCS1-1086 |
| -Second Channelisation code | | 16/14 | Rel-7 | RCS1-1087 |
| -Midamble Allocation mode | | Default midamble | Rel-7 | RCS1-1088 |
| -Midamble configuration | | 8 (k=16) | Rel-7 | RCS1-1089 |
| - Midamble Shift | | Not present | Rel-7 | RCS1-1090 |
| - E-AGCH BLER target | | -2 | Rel-7 | RCS1-1091 |
| -CHOICE mode | | TDD | Rel-7 | RCS1-1092 |
| -E-HICH Information | | | Rel-7 | RCS1-1093 |
| -CHOICE TDD option | | 1.28 Mcps TDD | Rel-7 | RCS1-1094 |
| - NE-HICH | | 4 | Rel-7 | RCS1-1095 |
| -E-HICH set configuration | | 1 | Rel-7 | RCS1-1096 |
| -EI | | 0 | Rel-7 | RCS1-1097 |
| -Timeslot number | | 6 | Rel-7 | RCS1-1098 |
| -Channelisation code | | 16/15 | Rel-7 | RCS1-1099 |
| -Midamble Allocation mode | | Default midamble | Rel-7 | RCS1-1100 |
| -Midamble configuration | | 8 (k=16) | Rel-7 | RCS1-1101 |
| -Midamble Shift | | Not present | Rel-7 | RCS1-1102 |
| Downlink information for each radio link list | A5 | Not present | Rel-8 | RCS1-1103 |

| Condition | Explanation | Version |
|-----------------|---|---------|
| A1 | This IE is needed for "Stand-alone SRBs mapped on DCH/DCH" | |
| A2 | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH " | Rel-6 |
| A3 | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH using MAC-ehs" | Rel-7 |
| A4 | This IE is needed for "Stand-alone SRBs mapped on E-DCH using MAC-i/is and HS-DSCH using MAC-ehs" | Rel-8 |
| A5 | This IE is needed for SRB mapped onto common E-DCH (MAC-i/is) and HS-DSCH (MAC-ehs) in Enhanced CELL_FACH | Rel-8 |
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8 |

NOTE: If not specified, then A1 will be the default condition

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (7.68 Mcps TDD option)

| Information Element | Value/remark | Version | Index |
|----------------------------|---|---------|----------|
| Message Type | | | RCS7-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS7-002 |
| RRC transaction identifier | 0 | | RCS7-003 |
| Activation time | Not Present(Now) | | RCS7-004 |
| New U-RNTI | | | RCS7-005 |

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| - SRNC identity | 0000 0000 0001B | | RCS7-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS7-007 |
| New C-RNTI | 0000 0000 0000 0001B | | RCS7-008 |
| New H-RNTI | Not Present | Rel-6 | RCS7-009 |
| CHOICE mode | TDD | Rel-7 | RCS7-010 |
| - New E-RNTI | Not Present | Rel-7 | RCS7-011 |
| RRC State Indicator | CELL_DCH | | RCS7-012 |
| UTRAN DRX cycle length coefficient | 9 | | RCS7-013 |
| Capability update requirement | | | RCS7-014 |
| - UE radio access FDD capability update requirement | FALSE | | RCS7-015 |
| - UE radio access TDD capability update requirement | TRUE | | RCS7-016 |
| - System specific capability update requirement list | GSM | | RCS7-017 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS7-018 |
| - Complete specification | | Rel-5 | RCS7-019 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS7-020 |
| - RB identity | Not Present | | RCS7-021 |
| - CHOICE RLC info type | | | RCS7-022 |
| - RLC info | | | RCS7-023 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS7-024 |
| - Transmission RLC discard | Not Present | | RCS7-025 |
| | | | RCS7-026 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS7-028 |
| - RB mapping info | | | RCS7-029 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-030 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-031 |
| - Number of RLC logical channels | 1 | | RCS7-032 |
| - Uplink transport channel type | DCH | | RCS7-033 |
| - UL Transport channel identity | 5 | | RCS7-034 |
| - Logical channel identity | 1 | | RCS7-035 |
| - CHOICE RLC size list | Configured | | RCS7-036 |
| - MAC logical channel priority | 1 | | RCS7-037 |
| - Downlink RLC logical channel info | | | RCS7-038 |
| - Number of RLC logical channels | 1 | | RCS7-039 |
| - Downlink transport channel type | DCH | | RCS7-040 |
| - DL DCH Transport channel identity | 10 | | RCS7-041 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-042 |
| - Logical channel identity | 1 | | RCS7-043 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-044 |
| - Number of RLC logical channels | 1 | | RCS7-045 |
| - Uplink transport channel type | RACH | | RCS7-046 |
| - UL Transport channel identity | Not Present | | RCS7-047 |
| - Logical channel identity | 1 | | RCS7-048 |
| - CHOICE RLC size list | Explicit List | | RCS7-049 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-050 |
| - MAC logical channel priority | 1 | | RCS7-051 |
| - Downlink RLC logical channel info | | | RCS7-052 |
| - Number of RLC logical channels | 1 | | RCS7-053 |
| - Downlink transport channel type | FACH | | RCS7-054 |
| - DL DCH Transport channel identity | Not Present | | RCS7-055 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-056 |
| - Logical channel identity | 1 | | RCS7-057 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS7-058 |
| - RB identity | Not Present | | RCS7-059 |
| - CHOICE RLC info type | | | RCS7-060 |
| - RLC info | | | RCS7-061 |

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-062 |
| - Transmission RLC discard | No Discard | | RCS7-063 |
| - SDU discard mode | 15 | | RCS7-064 |
| - MAX_DAT | | | RCS7-065 |
| | | | RCS7-066 |
| | | | RCS7-067 |
| - Transmission window size | 128 | | RCS7-068 |
| - Timer_RST | 500 | | RCS7-069 |
| - Max_RST | 1 | | RCS7-070 |
| - Polling info | | | RCS7-071 |
| - Timer_poll_prohibit | 200 | | RCS7-072 |
| - Timer_poll | 200 | | RCS7-073 |
| - Poll_PDU | Not present | | RCS7-074 |
| - Poll_SDU | 1 | | RCS7-075 |
| - Last transmission PDU poll | TRUE | | RCS7-076 |
| - Last retransmission PDU poll | TRUE | | RCS7-077 |
| - Poll_Window | 99 | | RCS7-078 |
| - Timer_poll_periodic | Not Present | | RCS7-079 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-080 |
| - In-sequence delivery | TRUE | | RCS7-081 |
| - Receiving window size | 128 | | RCS7-082 |
| - Downlink RLC status info | | | RCS7-083 |
| - Timer_status_prohibit | 200 | | RCS7-084 |
| - Timer_EPC | Not Present | | RCS7-085 |
| - Missing PDU indicator | TRUE | | RCS7-086 |
| - Timer_STATUS_periodic | Not Present | | RCS7-087 |
| - RB mapping info | | | RCS7-088 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-089 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-090 |
| - Number of RLC logical channels | 1 | | RCS7-091 |
| - Uplink transport channel type | DCH | | RCS7-092 |
| - UL Transport channel identity | 5 | | RCS7-093 |
| - Logical channel identity | 2 | | RCS7-094 |
| - CHOICE RLC size list | Configure | | RCS7-095 |
| - MAC logical channel priority | 2 | | RCS7-096 |
| - Downlink RLC logical channel info | | | RCS7-097 |
| - Number of RLC logical channels | 1 | | RCS7-098 |
| - Downlink transport channel type | DCH | | RCS7-099 |
| - DL DCH Transport channel identity | 10 | | RCS7-100 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-101 |
| - Logical channel identity | 2 | | RCS7-102 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-103 |
| - Number of RLC logical channels | 1 | | RCS7-104 |
| - Uplink transport channel type | RACH | | RCS7-105 |
| - UL Transport channel identity | Not Present | | RCS7-106 |
| - Logical channel identity | 2 | | RCS7-107 |
| - CHOICE RLC size list | Explicit List | | RCS7-108 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-109 |
| - MAC logical channel priority | 2 | | RCS7-110 |
| - Downlink RLC logical channel info | | | RCS7-111 |
| - Number of RLC logical channels | 1 | | RCS7-112 |
| - Downlink transport channel type | FACH | | RCS7-113 |
| - DL DCH Transport channel identity | Not Present | | RCS7-114 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-115 |
| - Logical channel identity | 2 | | RCS7-116 |
| Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS7-117 |
| - RB identity | Not Present | | RCS7-118 |
| - CHOICE RLC info type | | | RCS7-119 |
| - RLC info | | | RCS7-120 |

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-121 |
| - Transmission RLC discard | No Discard | | RCS7-122 |
| - SDU discard mode | 15 | | RCS7-123 |
| - MAX_DAT | | | RCS7-124 |
| | | | RCS7-125 |
| | | | RCS7-126 |
| - Transmission window size | 128 | | RCS7-127 |
| - Timer_RST | 500 | | RCS7-128 |
| - Max_RST | 1 | | RCS7-129 |
| - Polling info | | | RCS7-130 |
| - Timer_poll_prohibit | 200 | | RCS7-131 |
| - Timer_poll | 200 | | RCS7-132 |
| - Poll_PDU | Not present | | RCS7-133 |
| - Poll_SDU | 1 | | RCS7-134 |
| - Last transmission PDU poll | TRUE | | RCS7-135 |
| - Last retransmission PDU poll | TRUE | | RCS7-136 |
| - Poll_Windows | 99 | | RCS7-137 |
| - Timer_poll_periodic | Not Present | | RCS7-138 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-139 |
| - In-sequence delivery | TRUE | | RCS7-140 |
| - Receiving window size | 128 | | RCS7-141 |
| - Downlink RLC status info | | | RCS7-142 |
| - Timer_status_prohibit | 200 | | RCS7-143 |
| - Timer_EPC | Not Present | | RCS7-144 |
| - Missing PDU indicator | TRUE | | RCS7-145 |
| - Timer_STATUS_periodic | Not Present | | RCS7-146 |
| - RB mapping info | | | RCS7-147 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-148 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-149 |
| - Number of RLC logical channels | 1 | | RCS7-150 |
| - Uplink transport channel type | DCH | | RCS7-151 |
| - UL Transport channel identity | 5 | | RCS7-152 |
| - Logical channel identity | 3 | | RCS7-153 |
| - CHOICE RLC size list | Configured | | RCS7-154 |
| - MAC logical channel priority | 3 | | RCS7-155 |
| - Downlink RLC logical channel info | | | RCS7-156 |
| - Number of RLC logical channels | 1 | | RCS7-157 |
| - Downlink transport channel type | DCH | | RCS7-158 |
| - DL DCH Transport channel identity | 10 | | RCS7-159 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-160 |
| - Logical channel identity | 3 | | RCS7-161 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-162 |
| - Number of RLC logical channels | 1 | | RCS7-163 |
| - Uplink transport channel type | RACH | | RCS7-164 |
| - UL Transport channel identity | Not Present | | RCS7-165 |
| - Logical channel identity | 3 | | RCS7-166 |
| - CHOICE RLC size list | Explicit List | | RCS7-167 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-168 |
| - MAC logical channel priority | 3 | | RCS7-169 |
| - Downlink RLC logical channel info | | | RCS7-170 |
| - Number of RLC logical channels | 1 | | RCS7-171 |
| - Downlink transport channel type | FACH | | RCS7-172 |
| - DL DCH Transport channel identity | Not Present | | RCS7-173 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-174 |
| - Logical channel identity | 3 | | RCS7-175 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS7-176 |
| - RB identity | Not Present | | RCS7-177 |
| - CHOICE RLC info type | | | RCS7-178 |
| - RLC info | | | RCS7-179 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-180 |
| - Transmission RLC discard | No discard | | RCS7-181 |
| - SDU discard mode | 15 | | RCS7-182 |
| - MAX_DAT | | | RCS7-183 |
| | | | RCS7-184 |
| | | | RCS7-185 |
| - Transmission window size | 128 | | RCS7-186 |
| - Timer_RST | 500 | | RCS7-187 |
| - Max_RST | 1 | | RCS7-188 |
| - Polling info | | | RCS7-189 |
| - Timer_poll_prohibit | 200 | | RCS7-190 |
| - Timer_poll | 200 | | RCS7-191 |
| - Poll_PDU | Not present | | RCS7-192 |
| - Poll_SDU | 1 | | RCS7-193 |
| - Last transmission PDU poll | TRUE | | RCS7-194 |
| - Last retransmission PDU poll | TRUE | | RCS7-195 |
| - Poll_Windows | 99 | | RCS7-196 |
| - Timer_poll_periodic | Not Present | | RCS7-197 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-198 |
| - In-sequence delivery | TRUE | | RCS7-199 |
| - Receiving window size | 128 | | RCS7-200 |
| - Downlink RLC status info | | | RCS7-201 |
| - Timer_status_prohibit | 200 | | RCS7-202 |
| - Timer_EPC | Not Present | | RCS7-203 |
| - Missing PDU indicator | TRUE | | RCS7-204 |
| - Timer_STATUS_periodic | Not Present | | RCS7-205 |
| - RB mapping info | | | RCS7-206 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-207 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-208 |
| - Number of RLC logical channels | 1 | | RCS7-209 |
| - Uplink transport channel type | DCH | | RCS7-210 |
| - UL Transport channel identity | 5 | | RCS7-211 |
| - Logical channel identity | 4 | | RCS7-212 |
| - CHOICE RLC size list | Configured | | RCS7-213 |
| - MAC logical channel priority | 4 | | RCS7-214 |
| - Downlink RLC logical channel info | | | RCS7-215 |
| - Number of RLC logical channels | 1 | | RCS7-216 |
| - Downlink transport channel type | DCH | | RCS7-217 |
| - DL DCH Transport channel identity | 10 | | RCS7-218 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-219 |
| - Logical channel identity | 4 | | RCS7-220 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-221 |
| - Number of RLC logical channels | 1 | | RCS7-222 |
| - Uplink transport channel type | RACH | | RCS7-223 |
| - UL Transport channel identity | Not Present | | RCS7-224 |
| - Logical channel identity | 4 | | RCS7-225 |
| - CHOICE RLC size list | Explicit List | | RCS7-226 |
| - RLC size index | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-227 |
| - MAC logical channel priority | 4 | | RCS7-228 |
| - Downlink RLC logical channel info | | | RCS7-229 |
| - Number of RLC logical channels | 1 | | RCS7-230 |
| - Downlink transport channel type | FACH | | RCS7-231 |
| - DL DCH Transport channel identity | Not Present | | RCS7-232 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-233 |
| - Logical channel identity | 4 | | RCS7-234 |
| UL Transport channel information for all transport channels | | | RCS7-235 |
| - PRACH TFCS | Not Present | | RCS7-236 |
| - CHOICE mode | TDD | | RCS7-237 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - Individual UL CCTrCH information | | | RCS7-238 |
| - UL TFCS ID | (This IE is repeated for TFC number.) | | RCS7-239 |
| - UL TFCS | | | RCS7-240 |
| - TFC subset | | | RCS7-241 |
| - Allowed Transport Format combination | Default value is the complete existing set of transport format combinations | | RCS7-242 |
| - PRACH TFCS | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RCS7-243 |
| - CHOICE TFCI signalling | (This IE is repeated for TFC number.) | | RCS7-244 |
| - TFCI Field 1 information | Normal | | RCS7-245 |
| - TFCS complete | | | RCS7-246 |
| reconfigure information | | | |
| - CHOICE TFCS Size | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. | | RCS7-247 |
| - CTFC information | Refer to clause 6 Parameter Set | | RCS7-248 |
| - CHOICE mode | Not Present | | RCS7-249 |
| - Individual UL CCTrCH information | TDD | | RCS7-250 |
| Deleted TrCH information list | Not Present | | RCS7-251 |
| Added or Reconfigured UL TrCH information | | | RCS7-252 |
| - Uplink transport channel type | DCH | | RCS7-253 |
| - UL Transport channel identity | 5 | | RCS7-254 |
| - TFS | | | RCS7-255 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS7-256 |
| - Dynamic Transport format information | | | RCS7-257 |
| - RLC size | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-258 |
| - Number of TBs and TTI lists | (This IE is repeated for TFI number) | | RCS7-259 |
| - CHOICE mode | TDD | | RCS7-260 |
| - Transmission Time Interval | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS7-261 |
| - CHOICE Logical channel list | All | | RCS7-262 |
| - Semi-static Transport Format information | | | RCS7-263 |
| DL Transport channel information common for all transport channel | | | RCS7-264 |
| - SCCPCH TFCS | Not Present | | RCS7-265 |
| - CHOICE mode | TDD | | RCS7-266 |
| - Individual DL CCTrCH information | | | RCS7-267 |
| - DL TFCS Identity | | | RCS7-268 |
| - TFCS ID | 1 | | RCS7-269 |
| - Shared Channel Indicator | | | RCS7-270 |
| - CHOICE DL parameters | Same as UL | | RCS7-271 |
| Added or Reconfigured TrCH information list | | | RCS7-272 |
| - Added or Reconfigured DL TrCH information | | | RCS7-273 |
| - Downlink transport channel type | DCH | | RCS7-274 |
| - DL Transport channel identity | 10 | | RCS7-275 |
| - CHOICE DL parameters | Same as UL | | RCS7-276 |
| - Uplink transport channel type | DCH | | RCS7-277 |
| - UL Transport channel identity | 5 | | RCS7-278 |
| - DCH quality target | | | RCS7-279 |
| - BLER Quality value | -63 (-6.3) | | RCS7-280 |
| Frequency info | Not Present | | RCS7-281 |
| DTX-DRX timing information | Not Present | Rel-7 | RCS7-282 |
| DTX-DRX information | Not Present | Rel-7 | RCS7-283 |
| HS-SCCH less information | Not Present | Rel-7 | RCS7-284 |
| MIMO parameters | Not Present | Rel-7 | RCS7-285 |
| Maximum allowed UL TX power | Not Present | | RCS7-286 |
| Uplink DPCH info | | Rel-6 | RCS7-287 |
| - Uplink DPCH power control info | | | RCS7-288 |
| - CHOICE mode | TDD | | RCS7-289 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------|
| - CHOICE <i>TDD option</i> | 7.68 Mcps | Rel-7 | RCS7-290 |
| - UL target SIR | Reference to clause 6.11 Parameter set | | RCS7-291 |
| - CHOICE mode | TDD | | RCS7-292 |
| - CHOICE <i>UL OL PC info</i> | Individually signalled | | RCS7-293 |
| - CHOICE <i>TDD option</i> | 7.68 Mcps | Rel-7 | RCS7-294 |
| - Individual timeslot interference | Not Present | | RCS7-295 |
| info | | | |
| - Individual timeslot interference | | | RCS7-296 |
| - DPCH Constant Value | | | RCS7-297 |
| - Primary CCPCH Tx Power | Not Present | | RCS7-298 |
| - Time info | | | RCS7-299 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RCS7-300 |
| - Duration | Infinite | | RCS7-301 |
| - Common timeslot info | | | RCS7-302 |
| - 2 nd interleaving mode | Reference to clause 6.11 Parameter Set | | RCS7-303 |
| - TFCI coding | Reference to clause 6.11 Parameter Set | | RCS7-304 |
| - Puncturing Limit | Reference to clause 6.11 Parameter Set | | RCS7-305 |
| - Repetition Period | Reference to clause 6.11 Parameter Set | | RCS7-306 |
| - Repetition Length | Reference to clause 6.11 Parameter Set | | RCS7-307 |
| - CHOICE TDD Option | 7.68 Mcps | Rel-7 | RCS7-308 |
| - Uplink DPCH timeslots and codes VHCR | Default is to use the old timeslots and codes | Rel-7 | RCS7-309 |
| - CPCH SET Info | (no data) | R99 and Rel-4 only | RCS7-310 |
| E-DCH info | Not Present | Rel-6 | RCS7-311 |
| Downlink HS-PDSCH Information | Not Present | Rel-6 | RCS7-312 |
| Downlink information common for all radio links | | | RCS7-313 |
| - Downlink DPCH info common for all RL | | | RCS7-314 |
| - Timing indicator | Maintain | | RCS7-315 |
| - CFN-targetSFN frame offset | Not Present | | RCS7-316 |
| - Downlink DPCH power control information | | | RCS7-317 |
| - DPC mode | 0 (single) | | RCS7-318 |
| - CHOICE mode | TDD | | RCS7-319 |
| - CHOICE TDD option | 7.68 Mcps (no data) | Rel-7 | RCS7-320 |
| - Default DPCH Offset Value | Not Present | | RCS7-321 |
| Downlink information for each radio link list | | | RCS7-322 |
| - Downlink information for each radio link | | | RCS7-323 |
| - CHOICE mode | TDD | | RCS7-324 |
| - Primary CCPCH info | | | RCS7-325 |
| - CHOICE mode | TDD | | RCS7-326 |
| - CHOICE TDD option | 7.68 Mcps | Rel-7 | RCS7-327 |
| - CHOICE <i>SyncCase</i> | Sync Case 1 | | RCS7-328 |
| - Timeslot | PCCPCH timeslot | | RCS7-329 |
| - Cell parameters ID | 0 | | RCS7-330 |
| - SCTD indicator | | | RCS7-331 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | Rel-6 | RCS7-332 |
| - Downlink DPCH info for each RL | | | RCS7-333 |
| - CHOICE mode | 7.68Mcps TDD | Rel-7 | RCS7-334 |
| - DL CCTrCH List | | | RCS7-335 |
| - TFCS ID | 1 | | RCS7-336 |
| - Time info | | | RCS7-337 |
| - Activation time | (256+CFN-(CFN mod 8 + 8))mod 256 | | RCS7-338 |
| - Duration | infinite | | RCS7-339 |
| - Common timeslot info | | | RCS7-340 |
| - 2 nd interleaving mode | Reference to the present document | | RCS7-341 |
| - TFCI coding | TRUE | | RCS7-342 |
| - Puncturing limit | Reference to clause 6 Parameter set | | RCS7-343 |
| - Repetition period | 1 | | RCS7-344 |
| - Repetition length | Empty | | RCS7-345 |
| - Downlink DPCH timeslots and codes VHCR | | Rel-7 | RCS7-346 |
| - CHOICE <i>more timeslots</i> | | | RCS7-347 |
| - CHOICE TDD option | 7.68 Mcps | Rel-7 | RCS7-348 |
| - Timeslot number | The number of a downlink timeslot that has unassigned | | RCS7-349 |

| Information Element | Value/remark | Version | Index |
|----------------------------------|--|---------|----------------------------------|
| burst type | codes in a frame. | Rel-7 | RCS7-350 |
| | TRUE | | RCS7-351 RCS7-352 |
| Allocation Mode | 7.68 Mcps | Rel-7 | RCS7-353 |
| | Default | | RCS7-354 RCS7-355 RCS7-356 |
| configuration burst type 1 and 3 | 8 | Rel-7 | RCS7-357 |
| | | | RCS7-358 |
| channelisation codes VHCR | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set. | Rel-7 | RCS7-359 |
| | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS7-360 |
| | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | Rel-7 | RCS7-361 |
| | Not Present | Rel-7 | RCS7-362 |
| | Not Present | Rel-7 | RCS7-363 |
| | Not Present | Rel-7 | RCS7-364 |
| | TDD | Rel-7 | RCS7-365 |
| | Not Present | Rel-7 | RCS7-366 |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (3.84 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| Message Type | | | RCS3-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS3-002 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RCS3-003 |
| Activation time | Not Present(Now) | | RCS3-004 |
| New U-RNTI | | | RCS3-005 |
| - SRNC identity | 0000 0000 0001B | | RCS3-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS3-007 |
| New C-RNTI | Not Present | | RCS3-008 |
| RRC State Indicator | CELL_FACH | | RCS3-009 |
| UTRAN DRX cycle length coefficient | 9 , Integer(3...9) | | RCS3-010 |
| Capability update requirement | | | RCS3-011 |
| - UE radio access FDD capability update requirement | FALSE | | RCS3-012 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE | | RCS3-013 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE | | RCS3-014 |
| - System specific capability update requirement list | GSM | | RCS3-015 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS3-016 |
| - Complete specification | | Rel-5 | RCS3-017 |
| - Signalling RB information to setup list | | | RCS3-018 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS3-019 |
| - RB identity | 1 | | RCS3-020 |
| - CHOICE RLC info type | RLC info | | RCS3-021 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS3-022 |
| - Transmission RLC discard | Not Present | | RCS3-023 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS3-024 |
| - RB mapping info | | | RCS3-025 |
| - Information for each multiplexing option | 2 RBmuxOptions | | RCS3-026 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-027 |
| - Number of RLC logical channels | 1 | | RCS3-028 |
| - Uplink transport channel type | DCH | | RCS3-029 |
| - UL Transport channel identity | 5 | | RCS3-030 |
| - Logical channel identity | 1 | | RCS3-031 |
| - CHOICE RLC size list | Configure | | RCS3-032 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - MAC logical channel priority | 1 | | RCS3-033 |
| - Downlink RLC logical channel info | | | RCS3-034 |
| - Number of RLC logical channels | 1 | | RCS3-035 |
| - Downlink transport channel type | DCH | | RCS3-036 |
| - DL DCH Transport channel identity | | | RCS3-037 |
| - Transport channel identity | 10 | | RCS3-038 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-039 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-040 |
| - Logical channel identity | 1 | | RCS3-041 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-042 |
| - Number of RLC logical channels | 1 | | RCS3-043 |
| - Uplink transport channel type | RACH | | RCS3-044 |
| - UL Transport channel identity | | | RCS3-045 |
| - Logical channel identity | 1 | | RCS3-046 |
| - CHOICE RLC size list | Explicit List | | RCS3-047 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-048 |
| - MAC logical channel priority | 1 | | RCS3-049 |
| - Downlink RLC logical channel info | | | RCS3-050 |
| - Number of RLC logical channels | 1 | | RCS3-051 |
| - Downlink transport channel type | FACH | | RCS3-052 |
| - DL DCH Transport channel identity | Not Present | | RCS3-053 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-054 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-055 |
| - Logical channel identity | 1 | | RCS3-056 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS3-057 |
| - RB identity | 2 | | RCS3-058 |
| - CHOICE RLC info type | RLC info | | RCS3-059 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-060 |
| - Transmission RLC discard | | | RCS3-061 |
| - CHOICE SDU discard mode | No Discard | | RCS3-062 |
| - MAX_DAT | 15 | | RCS3-063 |
| - Transmission window size | 32 | | RCS3-064 |
| - Timer_RST | 500 | | RCS3-065 |
| - Max_RST | 1 | | RCS3-066 |
| - Polling info | | | RCS3-067 |
| - Timer_poll_prohibit | 200 | | RCS3-068 |
| - Timer_poll | 200 | | RCS3-069 |
| - Poll_PDU | Not present | | RCS3-070 |
| - Poll_SDU | 1 | | RCS3-071 |
| - Last transmission PDU poll | TRUE | | RCS3-072 |
| - Last retransmission PDU poll | TRUE | | RCS3-073 |
| - Poll_Window | 99 | | RCS3-074 |
| - Timer_poll_periodic | Not Present | | RCS3-075 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-076 |
| - In-sequence delivery | TRUE | | RCS3-077 |
| - Receiving window size | 32 | | RCS3-078 |
| - Downlink RLC status info | | | RCS3-079 |
| - Timer_status_prohibit | 200 | | RCS3-080 |
| - Timer_EPC | Not Present | | RCS3-081 |
| - Missing PDU indicator | TRUE | | RCS3-082 |
| - Timer_STATUS_periodic | Not Present | | RCS3-083 |
| - RB mapping info | | | RCS3-084 |
| - Information for each multiplexing option | 2 RBmuxOptions | | RCS3-085 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-086 |
| - Number of RLC logical channels | 1 | | RCS3-087 |
| - Uplink transport channel type | DCH | | RCS3-088 |
| - UL Transport channel identity | 5 | | RCS3-089 |
| - Logical channel identity | 2 | | RCS3-090 |
| - CHOICE RLC size list | Configure | | RCS3-091 |
| - MAC logical channel priority | 2 | | RCS3-092 |
| - Downlink RLC logical channel info | | | RCS3-093 |
| - Number of RLC logical channels | 1 | | RCS3-094 |
| - Downlink transport channel type | DCH | | RCS3-095 |
| - DL DCH Transport channel identity | | | RCS3-096 |
| - Transport channel identity | 10 | | RCS3-097 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-098 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-099 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - Logical channel identity | 2 | | RCS3-100 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-101 |
| - Number of RLC logical channels | 1 | | RCS3-102 |
| - Uplink transport channel type | RACH | | RCS3-103 |
| - UL Transport channel identity | Not Present | | RCS3-104 |
| - Logical channel identity | 2 | | RCS3-105 |
| - CHOICE RLC size list | Explicit List | | RCS3-106 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-107 |
| - MAC logical channel priority | 2 | | RCS3-108 |
| - Downlink RLC logical channel info | | | RCS3-109 |
| - Number of RLC logical channels | 1 | | RCS3-110 |
| - Downlink transport channel type | FACH | | RCS3-111 |
| - DL DCH Transport channel identity | Not Present | | RCS3-112 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-113 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-114 |
| - Logical channel identity | 2 | | RCS3-115 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS3-116 |
| - RB identity | 3 | | RCS3-117 |
| - CHOICE RLC info type | RLC info | | RCS3-118 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-119 |
| - Transmission RLC discard | | | RCS3-120 |
| - CHOICE SDU discard mode | No Discard | | RCS3-121 |
| - MAX_DAT | 15 | | RCS3-122 |
| - Transmission window size | 32 | | RCS3-123 |
| - Timer_RST | 500 | | RCS3-124 |
| - Max_RST | 1 | | RCS3-125 |
| - Polling info | | | RCS3-126 |
| - Timer_poll_prohibit | 200 | | RCS3-127 |
| - Timer_poll | 200 | | RCS3-128 |
| - Poll_PDU | Not present | | RCS3-129 |
| - Poll_SDU | 1 | | RCS3-130 |
| - Last transmission PDU poll | TRUE | | RCS3-131 |
| - Last retransmission PDU poll | TRUE | | RCS3-132 |
| - Poll_Window | 99 | | RCS3-133 |
| - Timer_poll_periodic | Not Present | | RCS3-134 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-135 |
| - In-sequence delivery | TRUE | | RCS3-136 |
| - Receiving window size | 32 | | RCS3-137 |
| - Downlink RLC status info | | | RCS3-138 |
| - Timer_status_prohibit | 200 | | RCS3-139 |
| - Timer_EPC | Not Present | | RCS3-140 |
| - Missing PDU indicator | TRUE | | RCS3-141 |
| - Timer_STATUS_periodic | Not Present | | RCS3-142 |
| - RB mapping info | | | RCS3-143 |
| - Information for each multiplexing option | 2 RBmuxOptions | | RCS3-144 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-145 |
| - Number of RLC logical channels | 1 | | RCS3-146 |
| - Uplink transport channel type | DCH | | RCS3-147 |
| - UL Transport channel identity | 5 | | RCS3-148 |
| - Logical channel identity | 3 | | RCS3-149 |
| - CHOICE RLC size list | Configure | | RCS3-150 |
| - MAC logical channel priority | 3 | | RCS3-151 |
| - Downlink RLC logical channel info | | | RCS3-152 |
| - Number of RLC logical channels | 1 | | RCS3-153 |
| - Downlink transport channel type | DCH | | RCS3-154 |
| - DL DCH Transport channel identity | | | RCS3-155 |
| - Transport channel identity | 10 | | RCS3-156 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-157 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-158 |
| - Logical channel identity | 3 | | RCS3-159 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-160 |
| - Number of RLC logical channels | 1 | | RCS3-161 |
| - Uplink transport channel type | RACH | | RCS3-162 |
| - UL Transport channel identity | Not Present | | RCS3-163 |
| - Logical channel identity | 3 | | RCS3-164 |
| - CHOICE RLC size list | Explicit List | | RCS3-165 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-166 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - MAC logical channel priority | 3 | | RCS3-167 |
| - Downlink RLC logical channel info | | | RCS3-168 |
| - Number of RLC logical channels | 1 | | RCS3-169 |
| - Downlink transport channel type | FACH | | RCS3-170 |
| - DL DCH Transport channel identity | Not Present | | RCS3-171 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-172 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-173 |
| - Logical channel identity | 3 | | RCS3-174 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS3-175 |
| - RB identity | 4 | | RCS3-176 |
| - CHOICE RLC info type | RLC info | | RCS3-177 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-178 |
| - Transmission RLC discard | | | RCS3-179 |
| - CHOICE SDU discard mode | No discard | | RCS3-180 |
| - MAX_DAT | 15 | | RCS3-181 |
| - Transmission window size | 32 | | RCS3-182 |
| - Timer_RST | 500 | | RCS3-183 |
| - Max_RST | 1 | | RCS3-184 |
| - Polling info | | | RCS3-185 |
| - Timer_poll_prohibit | 200 | | RCS3-186 |
| - Timer_poll | 200 | | RCS3-187 |
| - Poll_PDU | Not present | | RCS3-188 |
| - Poll_SDU | 1 | | RCS3-189 |
| - Last transmission PDU poll | TRUE | | RCS3-190 |
| - Last retransmission PDU poll | TRUE | | RCS3-191 |
| - Poll_Window | 99 | | RCS3-192 |
| - Timer_poll_periodic | Not Present | | RCS3-193 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-194 |
| - In-sequence delivery | TRUE | | RCS3-195 |
| - Receiving window size | 32 | | RCS3-196 |
| - Downlink RLC status info | | | RCS3-197 |
| - Timer_status_prohibit | 200 | | RCS3-198 |
| - Timer_EPC | Not Present | | RCS3-199 |
| - Missing PDU indicator | TRUE | | RCS3-200 |
| - Timer_STATUS_periodic | Not Present | | RCS3-201 |
| - RB mapping info | | | RCS3-202 |
| - Information for each multiplexing option | 2 RBmuxOptions | | RCS3-203 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-204 |
| - Number of RLC logical channels | 1 | | RCS3-205 |
| - Uplink transport channel type | DCH | | RCS3-206 |
| - UL Transport channel identity | 5 | | RCS3-207 |
| - Logical channel identity | 4 | | RCS3-208 |
| - CHOICE RLC size list | Configure | | RCS3-209 |
| - MAC logical channel priority | 4 | | RCS3-210 |
| - Downlink RLC logical channel info | | | RCS3-211 |
| - Number of RLC logical channels | 1 | | RCS3-212 |
| - Downlink transport channel type | DCH | | RCS3-213 |
| - DL DCH Transport channel identity | | | RCS3-214 |
| - Transport channel identity | 10 | | RCS3-215 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-216 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-217 |
| - Logical channel identity | 4 | | RCS3-218 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-219 |
| - Number of RLC logical channels | 1 | | RCS3-220 |
| - Uplink transport channel type | RACH | | RCS3-221 |
| - UL Transport channel identity | Not Present | | RCS3-222 |
| - Logical channel identity | 4 | | RCS3-223 |
| - CHOICE RLC size list | Explicit List | | RCS3-224 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-225 |
| - MAC logical channel priority | 4 | | RCS3-226 |
| - Downlink RLC logical channel info | | | RCS3-227 |
| - Number of RLC logical channels | 1 | | RCS3-228 |
| - Downlink transport channel type | FACH | | RCS3-229 |
| - DL DCH Transport channel identity | Not Present | | RCS3-230 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-231 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS3-232 |
| - Logical channel identity | 4 | | RCS3-233 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - UL Transport channel information for all transport channels | | | RCS3-234 |
| - PRACH TFCS | Not Present | | RCS3-235 |
| - CHOICE mode | TDD | | RCS3-236 |
| -Individual UL CCTrCH information | | | RCS3-237 |
| - UL TFCS Identity | | | RCS3-238 |
| - TFCS ID | 1 | | RCS3-239 |
| - Shared Channel Indicator | FALSE | | RCS3-240 |
| - UL TFCS | | | RCS3-241 |
| - CHOICE TFCI signalling | Normal | | RCS3-242 |
| - TFCI Field 1 Information | | | RCS3-243 |
| - CHOICE TFCS representation | Complete reconfiguration | | RCS3-244 |
| - TFCS complete reconfiguration | | | RCS3-245 |
| information | | | |
| - CHOICE CTFC Size | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. | | RCS3-246 |
| - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Parameter Set | | RCS3-247 |
| - CTFC | Reference to clause 6.10.3.4 Parameter Set | | RCS3-248 |
| - Power offset Information | | | RCS3-249 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RCS3-250 |
| - Reference TFC ID | 0, Integer(0.. 3) | | RCS3-251 |
| | | | RCS3-252 |
| | | | RCS3-253 |
| | | | RCS3-254 |
| | | | RCS3-255 |
| - CHOICE mode | TDD | | RCS3-256 |
| - TFC subset | Not present Default value is the complete existing set of transport format combinations | | RCS3-257 |
| | | | RCS3-258 |
| | | | RCS3-259 |
| | | | RCS3-260 |
| - TFC subset list | Not present | | RCS3-261 |
| - Added or Reconfigured UL TrCH information list | | | RCS3-262 |
| - Added or Reconfigured UL TrCH information | | | RCS3-263 |
| - Uplink transport channel type | DCH | | RCS3-264 |
| - UL Transport channel identity | 5 | | RCS3-265 |
| - TFS | | | RCS3-266 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS3-267 |
| - Dynamic Transport format information | | | RCS3-268 |
| - RLC size | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-269 |
| - Number of TBs and TTI lists | (This IE is repeated for TFI number) | | RCS3-270 |
| - Transmission Time Interval | According to clause 6 for standalone 13.6 kbps signalling radio bearer | | RCS3-271 |
| - Number of Transport blocks | Reference to clause 6.10 Parameter Set | | RCS3-272 |
| - CHOICE Logical channel list | All | | RCS3-273 |
| - Semi-static Transport Format information | | | RCS3-274 |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | | RCS3-275 |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | | RCS3-276 |
| - Coding Rate | Reference to clause 6.10 Parameter Set | | RCS3-277 |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | | RCS3-278 |
| - CRC size | Reference to clause 6.10 Parameter Set | | RCS3-279 |
| - DL Transport channel information common for all transport channel | | | RCS3-280 |
| - SCCPCH TFCS | Not Present | | RCS3-281 |
| - CHOICE mode | TDD | | RCS3-282 |
| -Individual DL CCTrCH information | | | RCS3-283 |
| - DL TFCS Identity | | | RCS3-284 |
| - TFCS ID | 1 | | RCS3-285 |
| - Shared Channel Indicator | FALSE | | RCS3-286 |
| - CHOICE DL parameters | Same as UL | | RCS3-287 |
| - UL DCH TFCS Identity | 1 | | RCS3-288 |
| - Shared Channel Indicator | FALSE | | RCS3-289 |
| - Added or Reconfigured TrCH information list | | | RCS3-290 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - Added or Reconfigured DL TrCH information | | | RCS3-291 |
| - Downlink transport channel type | DCH | | RCS3-292 |
| - DL Transport channel identity | 10 | | RCS3-293 |
| - CHOICE DL parameters | Same as UL | | RCS3-294 |
| - Uplink transport channel type | DCH | | RCS3-295 |
| - UL Transport channel identity | 5 | | RCS3-296 |
| -DCH quality target | | | RCS3-297 |
| - BLER Quality value | -63 (-6.3) | | RCS3-298 |
| Frequency info | Not Present | | RCS3-299 |
| Maximum allowed UL TX power | Not Present Default value is the existing maximum UL TX power | | RCS3-300 |
| CHOICE channel requirement | Not present | | RCS3-301 |
| Downlink information common for all radio links | Not present | | RCS3-302 |
| Downlink information for each radio link list | Not present | | RCS3-303 |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------------|---|---------|-----------|
| Message Type | | | | RCS1-001 |
| Initial UE identity | | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS1-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RCS1-003 |
| Activation time | | Not Present(Now) | | RCS1-004 |
| New U-RNTI | | | | RCS1-005 |
| - SRNC identity | | 0000 0000 0001B | | RCS1-006 |
| - S-RNTI | | 0000 0000 0000 0000 0001B | | RCS1-007 |
| New C-RNTI | | 0000 0000 0000 0001B | | RCS1-008 |
| RRC State Indicator | | CELL_FACH | | RCS1-009 |
| UTRAN DRX cycle length coefficient | | 9 , Integer(3...9) | | RCS1-010 |
| Capability update requirement | | | | RCS1-011 |
| - UE radio access FDD capability update requirement | | FALSE | | RCS1-012 |
| - UE radio access 3.84 Mcps TDD capability update requirement | | FALSE | | RCS1-013 |
| - UE radio access 1.28 Mcps TDD capability update requirement | | TRUE | | RCS1-014 |
| - System specific capability update requirement list | | Not Present | | RCS1-015 |
| - System specific capability update requirement list | UTRAN to E-UTRA | GSM, EUTRA | Rel-8 | RCS1-015b |
| CHOICE specification mode | | Complete specification | Rel-5 | RCS1-016 |
| - Complete specification | | | Rel-5 | RCS1-017 |
| - Signalling RB information to setup list | | | | RCS1-018 |
| - Signalling RB information to setup | | (UM DCCH for RRC) | | RCS1-019 |
| - RB identity | | 1 | | RCS1-020 |
| - CHOICE RLC info type | | RLC info | | RCS1-021 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCS1-022 |
| - Transmission RLC discard | | Not Present | | RCS1-023 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCS1-024 |
| - RB mapping info | | | | RCS1-025 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS1-026 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-027 |
| - Number of RLC logical channels | | 1 | | RCS1-028 |
| - Uplink transport channel type | | DCH | | RCS1-029 |
| - UL Transport channel identity | | 5 | | RCS1-030 |
| - Logical channel identity | | 1 | | RCS1-031 |
| - CHOICE RLC size list | | Configure | | RCS1-032 |
| - MAC logical channel priority | | 1 | | RCS1-033 |
| - Downlink RLC logical channel info | | | | RCS1-034 |
| - Number of RLC logical channels | | 1 | | RCS1-035 |
| - Downlink transport channel type | | DCH | | RCS1-036 |
| - DL DCH Transport channel identity | | | | RCS1-037 |
| - Transport channel identity | | 10 | | RCS1-038 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-039 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-040 |
| - Logical channel identity | | 1 | | RCS1-041 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-042 |
| - Number of RLC logical channels | | 1 | | RCS1-043 |
| - Uplink transport channel type | | RACH | | RCS1-044 |
| - UL Transport channel identity | | | | RCS1-045 |
| - Logical channel identity | | 1 | | RCS1-046 |
| - CHOICE RLC size list | | Explicit List | | RCS1-047 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCS1-048 |
| - MAC logical channel priority | | 1 | | RCS1-049 |
| - Downlink RLC logical channel info | | | | RCS1-050 |
| - Number of RLC logical channels | | 1 | | RCS1-051 |
| - Downlink transport channel type | | FACH | | RCS1-052 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-053 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-054 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-055 |
| - Logical channel identity | | 1 | | RCS1-056 |
| - Signalling RB information to setup | | (AM DCCH for RRC) | | RCS1-057 |
| - RB identity | | 2 | | RCS1-058 |
| - CHOICE RLC info type | | RLC info | | RCS1-059 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-060 |
| - Transmission RLC discard | | | | RCS1-061 |
| - CHOICE SDU discard mode | | No Discard | | RCS1-062 |
| - MAX_DAT | | 15 | | RCS1-063 |
| - Transmission window size | | 32 | | RCS1-064 |
| - Timer_RST | | 500 | | RCS1-065 |
| - Max_RST | | 1 | | RCS1-066 |
| - Polling info | | | | RCS1-067 |
| - Timer_poll_prohibit | | 200 | | RCS1-068 |
| - Timer_poll | | 200 | | RCS1-069 |
| - Poll_PDU | | Not present | | RCS1-070 |
| - Poll_SDU | | 1 | | RCS1-071 |
| - Last transmission PDU poll | | TRUE | | RCS1-072 |
| - Last retransmission PDU poll | | TRUE | | RCS1-073 |
| - Poll_Window | | 99 | | RCS1-074 |
| - Timer_poll_periodic | | Not Present | | RCS1-075 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-076 |
| - In-sequence delivery | | TRUE | | RCS1-077 |
| - Receiving window size | | 32 | | RCS1-078 |
| - Downlink RLC status info | | | | RCS1-079 |
| - Timer_status_prohibit | | 200 | | RCS1-080 |
| - Timer_EPC | | Not Present | | RCS1-081 |
| - Missing PDU indicator | | TRUE | | RCS1-082 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-083 |
| - RB mapping info | | | | RCS1-084 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS1-085 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-086 |
| - Number of RLC logical channels | | 1 | | RCS1-087 |
| - Uplink transport channel type | | DCH | | RCS1-088 |
| - UL Transport channel identity | | 5 | | RCS1-089 |
| - Logical channel identity | | 2 | | RCS1-090 |
| - CHOICE RLC size list | | Configure | | RCS1-091 |
| - MAC logical channel priority | | 2 | | RCS1-092 |
| - Downlink RLC logical channel info | | | | RCS1-093 |
| - Number of RLC logical channels | | 1 | | RCS1-094 |
| - Downlink transport channel type | | DCH | | RCS1-095 |
| - DL DCH Transport channel identity | | | | RCS1-096 |
| - Transport channel identity | | 10 | | RCS1-097 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-098 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-099 |
| - Logical channel identity | | 2 | | RCS1-100 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-101 |
| - Number of RLC logical channels | | 1 | | RCS1-102 |
| - Uplink transport channel type | | RACH | | RCS1-103 |
| - UL Transport channel identity | | Not Present | | RCS1-104 |
| - Logical channel identity | | 2 | | RCS1-105 |
| - CHOICE RLC size list | | Explicit List | | RCS1-106 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - RLC size index | | Reference to clause 6 Parameter Set | | RCS1-107 |
| - MAC logical channel priority | | 2 | | RCS1-108 |
| - Downlink RLC logical channel info | | | | RCS1-109 |
| - Number of RLC logical channels | | 1 | | RCS1-110 |
| - Downlink transport channel type | | FACH | | RCS1-111 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-112 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-113 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-114 |
| - Logical channel identity | | 2 | | RCS1-115 |
| - Signalling RB information to setup | | (AM DCCH for NAS_DT High priority) | | RCS1-116 |
| - RB identity | | 3 | | RCS1-117 |
| - CHOICE RLC info type | | RLC info | | RCS1-118 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-119 |
| - Transmission RLC discard | | | | RCS1-120 |
| - CHOICE SDU discard mode | | No Discard | | RCS1-121 |
| - MAX_DAT | | 15 | | RCS1-122 |
| - Transmission window size | | 32 | | RCS1-123 |
| - Timer_RST | | 500 | | RCS1-124 |
| - Max_RST | | 1 | | RCS1-125 |
| - Polling info | | | | RCS1-126 |
| - Timer_poll_prohibit | | 200 | | RCS1-127 |
| - Timer_poll | | 200 | | RCS1-128 |
| - Poll_PDU | | Not present | | RCS1-129 |
| - Poll_SDU | | 1 | | RCS1-130 |
| - Last transmission PDU poll | | TRUE | | RCS1-131 |
| - Last retransmission PDU poll | | TRUE | | RCS1-132 |
| - Poll_Window | | 99 | | RCS1-133 |
| - Timer_poll_periodic | | Not Present | | RCS1-134 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-135 |
| - In-sequence delivery | | TRUE | | RCS1-136 |
| - Receiving window size | | 32 | | RCS1-137 |
| - Downlink RLC status info | | | | RCS1-138 |
| - Timer_status_prohibit | | 200 | | RCS1-139 |
| - Timer_EPC | | Not Present | | RCS1-140 |
| - Missing PDU indicator | | TRUE | | RCS1-141 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-142 |
| - RB mapping info | | | | RCS1-143 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCS1-144 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-145 |
| - Number of RLC logical channels | | 1 | | RCS1-146 |
| - Uplink transport channel type | | DCH | | RCS1-147 |
| - UL Transport channel identity | | 5 | | RCS1-148 |
| - Logical channel identity | | 3 | | RCS1-149 |
| - CHOICE RLC size list | | Configure | | RCS1-150 |
| - MAC logical channel priority | | 3 | | RCS1-151 |
| - Downlink RLC logical channel info | | | | RCS1-152 |
| - Number of RLC logical channels | | 1 | | RCS1-153 |
| - Downlink transport channel type | | DCH | | RCS1-154 |
| - DL DCH Transport channel identity | | | | RCS1-155 |
| - Transport channel identity | | 10 | | RCS1-156 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-157 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-158 |
| - Logical channel identity | | 3 | | RCS1-159 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-160 |
| - Number of RLC logical channels | | 1 | | RCS1-161 |
| - Uplink transport channel type | | RACH | | RCS1-162 |
| - UL Transport channel identity | | Not Present | | RCS1-163 |
| - Logical channel identity | | 3 | | RCS1-164 |
| - CHOICE RLC size list | | Explicit List | | RCS1-165 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCS1-166 |
| - MAC logical channel priority | | 3 | | RCS1-167 |
| - Downlink RLC logical channel info | | | | RCS1-168 |
| - Number of RLC logical channels | | 1 | | RCS1-169 |
| - Downlink transport channel type | | FACH | | RCS1-170 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-171 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-172 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-173 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|-------------------------------------|---------|----------|
| - Logical channel identity | | 3 | | RCS1-174 |
| - Signalling RB information to setup | | (AM DCCH for NAS_DT Low priority) | | RCS1-175 |
| - RB identity | | 4 | | RCS1-176 |
| - CHOICE RLC info type | | RLC info | | RCS1-177 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCS1-178 |
| - Transmission RLC discard | | No discard | | RCS1-179 |
| - CHOICE SDU discard mode | | | | RCS1-180 |
| - MAX_DAT | | 15 | | RCS1-181 |
| - Transmission window size | | 32 | | RCS1-182 |
| - Timer_RST | | 500 | | RCS1-183 |
| - Max_RST | | 1 | | RCS1-184 |
| - Polling info | | | | RCS1-185 |
| - Timer_poll_prohibit | | 200 | | RCS1-186 |
| - Timer_poll | | 200 | | RCS1-187 |
| | | | | RCS1-188 |
| - Poll_SDU | | 1 | | RCS1-189 |
| - Last transmission PDU poll | | TRUE | | RCS1-190 |
| - Last retransmission PDU poll | | TRUE | | RCS1-191 |
| - Poll_Window | | 99 | | RCS1-192 |
| - Timer_poll_periodic | | Not Present | | RCS1-193 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCS1-194 |
| - In-sequence delivery | | TRUE | | RCS1-195 |
| - Receiving window size | | 32 | | RCS1-196 |
| - Downlink RLC status info | | | | RCS1-197 |
| - Timer_status_prohibit | | 200 | | RCS1-198 |
| - Timer_EPC | | Not Present | | RCS1-199 |
| - Missing PDU indicator | | TRUE | | RCS1-200 |
| - Timer_STATUS_periodic | | Not Present | | RCS1-201 |
| - RB mapping info | | | | RCS1-202 |
| - Information for each multiplexing option | | 2 RBmuxOptions | | RCS1-203 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-204 |
| - Number of RLC logical channels | | 1 | | RCS1-205 |
| - Uplink transport channel type | | DCH | | RCS1-206 |
| - UL Transport channel identity | | 5 | | RCS1-207 |
| - Logical channel identity | | 4 | | RCS1-208 |
| - CHOICE RLC size list | | Configure | | RCS1-209 |
| - MAC logical channel priority | | 4 | | RCS1-210 |
| - Downlink RLC logical channel info | | | | RCS1-211 |
| - Number of RLC logical channels | | 1 | | RCS1-212 |
| - Downlink transport channel type | | DCH | | RCS1-213 |
| - DL DCH Transport channel identity | | | | RCS1-214 |
| - Transport channel identity | | 10 | | RCS1-215 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-216 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-217 |
| - Logical channel identity | | 4 | | RCS1-218 |
| - RLC logical channel mapping indicator | | Not Present | | RCS1-219 |
| - Number of RLC logical channels | | 1 | | RCS1-220 |
| - Uplink transport channel type | | RACH | | RCS1-221 |
| - UL Transport channel identity | | Not Present | | RCS1-222 |
| - Logical channel identity | | 4 | | RCS1-223 |
| - CHOICE RLC size list | | Explicit List | | RCS1-224 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCS1-225 |
| - MAC logical channel priority | | 4 | | RCS1-226 |
| - Downlink RLC logical channel info | | | | RCS1-227 |
| - Number of RLC logical channels | | 1 | | RCS1-228 |
| - Downlink transport channel type | | FACH | | RCS1-229 |
| - DL DCH Transport channel identity | | Not Present | | RCS1-230 |
| - DL DSCH Transport channel identity | | Not Present | | RCS1-231 |
| - DL HS-DSCH MAC-d flow identity | | Not Present | | RCS1-232 |
| - Logical channel identity | | 4 | | RCS1-233 |
| - UL Transport channel information for all transport channels | | | | RCS1-234 |
| - PRACH TFCS | | Not Present | | RCS1-235 |
| - CHOICE mode | | TDD | | RCS1-236 |
| - Individual UL CCTrCH information | | | | RCS1-237 |
| - UL TFCS Identity | | | | RCS1-238 |
| - TFCS ID | | 1 | | RCS1-239 |

| Information Element | Condition | Value/remark | Version | Index |
|---|---|--|----------|----------|
| information | - Shared Channel Indicator | FALSE | | RCS1-240 |
| | - UL TFCS | | | RCS1-241 |
| | - CHOICE TFCS signalling | Normal | | RCS1-242 |
| | - TFCI Field 1 Information | | | RCS1-243 |
| | - CHOICE TFCS representation | Complete reconfiguration | | RCS1-244 |
| | - TFCS complete reconfiguration | | | RCS1-245 |
| | - CHOICE CTFC Size | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RCS1-246 |
| | - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set | | RCS1-247 |
| | - CTFC | Reference to clause 6.11.5.4 Parameter Set | | RCS1-248 |
| | - Power offset Information | | | RCS1-249 |
| | - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RCS1-250 |
| | - Reference TFC ID | 0, Integer(0.. 3) | | RCS1-251 |
| | - CHOICE mode | TDD | | RCS1-252 |
| | - TFC subset | Not present. Default value is the complete existing set of transport format combinations | | RCS1-253 |
| | - TFC subset list | Not present | | RCS1-254 |
| | - DL Transport channel information common for all transport channel | | | RCS1-255 |
| | - SCCPCH TFCS | Not Present | | RCS1-256 |
| | - CHOICE mode | TDD | | RCS1-257 |
| | -Individual DL CCTrCH information | | | RCS1-258 |
| | - DL TFCS Identity | | | RCS1-259 |
| - TFCS ID | 1 | | RCS1-260 | |
| - Shared Channel Indicator | FALSE | | RCS1-261 | |
| - CHOICE DL parameters | Same as UL | | RCS1-262 | |
| - UL DCH TFCS Identity | 1 | | RCS1-263 | |
| - Shared Channel Indicator | FALSE | | RCS1-264 | |
| Frequency info | Not Present | | RCS1-265 | |
| Maximum allowed UL TX power | Not Present. Default value is the existing maximum UL TX power | | RCS1-266 | |
| CHOICE channel requirement | Not present | | RCS1-267 | |
| Downlink information common for all radio links | Not present | | RCS1-268 | |
| Downlink information for each radio link list | Not Present | | RCS1-269 | |

| Condition | Explanation | Version |
|-----------------|--|---------|
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8 |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (7.68 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|------------------------------------|---|---------|----------|
| Message Type | | | RCS7-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS7-002 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RCS7-003 |
| Activation time | Not Present(Now) | | RCS7-004 |
| New U-RNTI | | | RCS7-005 |
| - SRNC identity | 0000 0000 0001B | | RCS7-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS7-007 |
| New C-RNTI | 0000 0000 0000 0001B | | RCS7-008 |
| New H-RNTI | Not Present | Rel-6 | RCS7-009 |
| CHOICE mode | TDD | Rel-7 | RCS7-010 |
| - New E-RNTI | Not Present | Rel-7 | RCS7-011 |
| RRC State Indicator | CELL_FACH | | RCS7-012 |
| UTRAN DRX cycle length coefficient | 9 | | RCS7-013 |

| Information Element | Value/remark | Version | Index |
|---|-------------------------------------|---------|----------|
| Capability update requirement | | | RCS7-014 |
| - UE radio access FDD capability update requirement | FALSE | | RCS7-015 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE | | RCS7-016 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE | | RCS7-017 |
| - System specific capability update requirement list | Not Present | | RCS7-018 |
| CHOICE specification mode | | | RCS7-019 |
| - Complete specification | | | RCS7-020 |
| - Signalling RB information to setup list | | | RCS7-021 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS7-022 |
| - RB identity | 1 | | RCS7-023 |
| - CHOICE RLC info type | RLC info | | RCS7-024 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS7-025 |
| - Transmission RLC discard | Not Present | | RCS7-026 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS7-027 |
| - RB mapping info | | | RCS7-028 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-029 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-030 |
| - Number of RLC logical channels | 1 | | RCS7-031 |
| - Uplink transport channel type | DCH | | RCS7-032 |
| - UL Transport channel identity | 5 | | RCS7-033 |
| - Logical channel identity | 1 | | RCS7-034 |
| - CHOICE RLC size list | Configure | | RCS7-035 |
| - MAC logical channel priority | 1 | | RCS7-036 |
| - Downlink RLC logical channel info | | | RCS7-037 |
| - Number of RLC logical channels | 1 | | RCS7-038 |
| - Downlink transport channel type | DCH | | RCS7-039 |
| - DL DCH Transport channel identity | | | RCS7-040 |
| - Transport channel identity | 10 | | RCS7-041 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-042 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-043 |
| - Logical channel identity | 1 | | RCS7-044 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-045 |
| - Number of RLC logical channels | 1 | | RCS7-046 |
| - Uplink transport channel type | RACH | | RCS7-047 |
| - UL Transport channel identity | | | RCS7-048 |
| - Logical channel identity | 1 | | RCS7-049 |
| - CHOICE RLC size list | Explicit List | | RCS7-050 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-051 |
| - MAC logical channel priority | 1 | | RCS7-052 |
| - Downlink RLC logical channel info | | | RCS7-053 |
| - Number of RLC logical channels | 1 | | RCS7-054 |
| - Downlink transport channel type | FACH | | RCS7-055 |
| - DL DCH Transport channel identity | Not Present | | RCS7-056 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-057 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-058 |
| - Logical channel identity | 1 | | RCS7-059 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS7-060 |
| - RB identity | 2 | | RCS7-061 |
| - CHOICE RLC info type | RLC info | | RCS7-062 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-063 |
| - Transmission RLC discard | | | RCS7-064 |
| - CHOICE SDU discard mode | No Discard | | RCS7-065 |
| - MAX_DAT | 15 | | RCS7-066 |
| - Transmission window size | 32 | | RCS7-067 |
| - Timer_RST | 500 | | RCS7-068 |
| - Max_RST | 1 | | RCS7-069 |
| - Polling info | | | RCS7-070 |
| - Timer_poll_prohibit | 200 | | RCS7-071 |
| - Timer_poll | 200 | | RCS7-072 |
| - Poll_PDU | Not present | | RCS7-073 |
| - Poll_SDU | 1 | | RCS7-074 |
| - Last transmission PDU poll | TRUE | | RCS7-075 |
| - Last retransmission PDU poll | TRUE | | RCS7-076 |
| - Poll_Window | 99 | | RCS7-077 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - Timer_poll_periodic | Not Present | | RCS7-078 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-079 |
| - In-sequence delivery | TRUE | | RCS7-080 |
| - Receiving window size | 32 | | RCS7-081 |
| - Downlink RLC status info | | | RCS7-082 |
| - Timer_status_prohibit | 200 | | RCS7-083 |
| - Timer_EPC | Not Present | | RCS7-084 |
| - Missing PDU indicator | TRUE | | RCS7-085 |
| - Timer_STATUS_periodic | Not Present | | RCS7-086 |
| - RB mapping info | | | RCS7-087 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-088 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-089 |
| - Number of RLC logical channels | 1 | | RCS7-090 |
| - Uplink transport channel type | DCH | | RCS7-091 |
| - UL Transport channel identity | 5 | | RCS7-092 |
| - Logical channel identity | 2 | | RCS7-093 |
| - CHOICE RLC size list | Configure | | RCS7-094 |
| - MAC logical channel priority | 2 | | RCS7-095 |
| - Downlink RLC logical channel info | | | RCS7-096 |
| - Number of RLC logical channels | 1 | | RCS7-097 |
| - Downlink transport channel type | DCH | | RCS7-098 |
| - DL DCH Transport channel identity | | | RCS7-099 |
| - Transport channel identity | 10 | | RCS7-100 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-101 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-102 |
| - Logical channel identity | 2 | | RCS7-103 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-104 |
| - Number of RLC logical channels | 1 | | RCS7-105 |
| - Uplink transport channel type | RACH | | RCS7-106 |
| - UL Transport channel identity | Not Present | | RCS7-107 |
| - Logical channel identity | 2 | | RCS7-108 |
| - CHOICE RLC size list | Explicit List | | RCS7-109 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-110 |
| - MAC logical channel priority | 2 | | RCS7-111 |
| - Downlink RLC logical channel info | | | RCS7-112 |
| - Number of RLC logical channels | 1 | | RCS7-113 |
| - Downlink transport channel type | FACH | | RCS7-114 |
| - DL DCH Transport channel identity | Not Present | | RCS7-115 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-116 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-117 |
| - Logical channel identity | 2 | | RCS7-118 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS7-119 |
| - RB identity | 3 | | RCS7-120 |
| - CHOICE RLC info type | RLC info | | RCS7-121 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-122 |
| - Transmission RLC discard | | | RCS7-123 |
| - CHOICE SDU discard mode | No Discard | | RCS7-124 |
| - MAX_DAT | 15 | | RCS7-125 |
| - Transmission window size | 32 | | RCS7-126 |
| - Timer_RST | 500 | | RCS7-127 |
| - Max_RST | 1 | | RCS7-128 |
| - Polling info | | | RCS7-129 |
| - Timer_poll_prohibit | 200 | | RCS7-130 |
| - Timer_poll | 200 | | RCS7-131 |
| - Poll_PDU | Not present | | RCS7-132 |
| - Poll_SDU | 1 | | RCS7-133 |
| - Last transmission PDU poll | TRUE | | RCS7-134 |
| - Last retransmission PDU poll | TRUE | | RCS7-135 |
| - Poll_Window | 99 | | RCS7-136 |
| - Timer_poll_periodic | Not Present | | RCS7-137 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-138 |
| - In-sequence delivery | TRUE | | RCS7-139 |
| - Receiving window size | 32 | | RCS7-140 |
| - Downlink RLC status info | | | RCS7-141 |
| - Timer_status_prohibit | 200 | | RCS7-142 |
| - Timer_EPC | Not Present | | RCS7-143 |
| - Missing PDU indicator | TRUE | | RCS7-144 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - Timer_STATUS_periodic | Not Present | | RCS7-145 |
| - RB mapping info | | | RCS7-146 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-147 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-148 |
| - Number of RLC logical channels | 1 | | RCS7-149 |
| - Uplink transport channel type | DCH | | RCS7-150 |
| - UL Transport channel identity | 5 | | RCS7-151 |
| - Logical channel identity | 3 | | RCS7-152 |
| - CHOICE RLC size list | Configure | | RCS7-153 |
| - MAC logical channel priority | 3 | | RCS7-154 |
| - Downlink RLC logical channel info | | | RCS7-155 |
| - Number of RLC logical channels | 1 | | RCS7-156 |
| - Downlink transport channel type | DCH | | RCS7-157 |
| - DL DCH Transport channel identity | | | RCS7-158 |
| - Transport channel identity | 10 | | RCS7-159 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-160 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-161 |
| - Logical channel identity | 3 | | RCS7-162 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-163 |
| - Number of RLC logical channels | 1 | | RCS7-164 |
| - Uplink transport channel type | RACH | | RCS7-165 |
| - UL Transport channel identity | Not Present | | RCS7-166 |
| - Logical channel identity | 3 | | RCS7-167 |
| - CHOICE RLC size list | Explicit List | | RCS7-168 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-169 |
| - MAC logical channel priority | 3 | | RCS7-170 |
| - Downlink RLC logical channel info | | | RCS7-171 |
| - Number of RLC logical channels | 1 | | RCS7-172 |
| - Downlink transport channel type | FACH | | RCS7-173 |
| - DL DCH Transport channel identity | Not Present | | RCS7-174 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-175 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-176 |
| - Logical channel identity | 3 | | RCS7-177 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS7-178 |
| - RB identity | 4 | | RCS7-179 |
| - CHOICE RLC info type | RLC info | | RCS7-180 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-181 |
| - Transmission RLC discard | | | RCS7-182 |
| - CHOICE SDU discard mode | No discard | | RCS7-183 |
| - MAX_DAT | 15 | | RCS7-184 |
| - Transmission window size | 32 | | RCS7-185 |
| - Timer_RST | 500 | | RCS7-186 |
| - Max_RST | 1 | | RCS7-187 |
| - Polling info | | | RCS7-188 |
| - Timer_poll_prohibit | 200 | | RCS7-189 |
| - Timer_poll | 200 | | RCS7-190 |
| - Poll_SDU | 1 | | RCS7-191 |
| - Last transmission PDU poll | TRUE | | RCS7-192 |
| - Last retransmission PDU poll | TRUE | | RCS7-193 |
| - Poll_Window | 99 | | RCS7-194 |
| - Timer_poll_periodic | Not Present | | RCS7-195 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-196 |
| - In-sequence delivery | TRUE | | RCS7-197 |
| - Receiving window size | 32 | | RCS7-198 |
| - Downlink RLC status info | | | RCS7-199 |
| - Timer_status_prohibit | 200 | | RCS7-200 |
| - Timer_EPC | Not Present | | RCS7-201 |
| - Missing PDU indicator | TRUE | | RCS7-202 |
| - Timer_STATUS_periodic | Not Present | | RCS7-203 |
| - RB mapping info | | | RCS7-204 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-205 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-206 |
| - Number of RLC logical channels | 1 | | RCS7-207 |
| - Uplink transport channel type | DCH | | RCS7-208 |
| - UL Transport channel identity | 5 | | RCS7-209 |
| - Logical channel identity | 4 | | RCS7-210 |
| - CHOICE RLC size list | Configure | | RCS7-211 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - MAC logical channel priority | 4 | | RCS7-212 |
| - Downlink RLC logical channel info | | | RCS7-213 |
| - Number of RLC logical channels | 1 | | RCS7-214 |
| - Downlink transport channel type | DCH | | RCS7-215 |
| - DL DCH Transport channel identity | | | RCS7-216 |
| - Transport channel identity | 10 | | RCS7-217 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-218 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-219 |
| - Logical channel identity | 4 | | RCS7-220 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-221 |
| - Number of RLC logical channels | 1 | | RCS7-222 |
| - Uplink transport channel type | RACH | | RCS7-223 |
| - UL Transport channel identity | Not Present | | RCS7-224 |
| - Logical channel identity | 4 | | RCS7-225 |
| - CHOICE RLC size list | Explicit List | | RCS7-226 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-227 |
| - MAC logical channel priority | 4 | | RCS7-228 |
| - Downlink RLC logical channel info | | | RCS7-229 |
| - Number of RLC logical channels | 1 | | RCS7-230 |
| - Downlink transport channel type | FACH | | RCS7-231 |
| - DL DCH Transport channel identity | Not Present | | RCS7-232 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-233 |
| - DL HS-DSCH MAC-d flow identity | Not Present | | RCS7-234 |
| - Logical channel identity | 4 | | RCS7-235 |
| - UL Transport channel information for all transport channels | | | RCS7-236 |
| - PRACH TFCS | Not Present | | RCS7-237 |
| - CHOICE mode | TDD | | RCS7-238 |
| - Individual UL CCTrCH information | | | RCS7-239 |
| - UL TFCS Identity | | | RCS7-240 |
| - TFCS ID | 1 | | RCS7-241 |
| - Shared Channel Indicator | FALSE | | RCS7-242 |
| - UL TFCS | | | RCS7-243 |
| - CHOICE TFCS signalling | Normal | | RCS7-244 |
| - TFCS Field 1 Information | | | RCS7-245 |
| - CHOICE TFCS representation | Complete reconfiguration | | RCS7-246 |
| - TFCS complete reconfiguration | | | RCS7-247 |
| - CHOICE CTFC Size | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | | RCS7-248 |
| - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set | | RCS7-249 |
| - CTFC | Reference to clause 6.11.5.4 Parameter Set | | RCS7-250 |
| - Power offset Information | | | RCS7-251 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RCS7-252 |
| - Reference TFC ID | 0, Integer(0.. 3) | | RCS7-253 |
| - CHOICE mode | TDD | | RCS7-254 |
| - TFC subset | Not present. Default value is the complete existing set of transport format combinations | | RCS7-255 |
| - TFC subset list | Not present | | RCS7-256 |
| - DL Transport channel information common for all transport channel | | | RCS7-257 |
| - SCCPCH TFCS | Not Present | | RCS7-258 |
| - CHOICE mode | TDD | | RCS7-259 |
| - Individual DL CCTrCH information | | | RCS7-260 |
| - DL TFCS Identity | | | RCS7-261 |
| - TFCS ID | 1 | | RCS7-262 |
| - Shared Channel Indicator | FALSE | | RCS7-263 |
| - CHOICE DL parameters | Same as UL | | RCS7-264 |
| - UL DCH TFCS Identity | 1 | | RCS7-265 |
| - Shared Channel Indicator | FALSE | | RCS7-266 |
| Frequency info | Not Present | | RCS7-267 |
| DTX-DRX timing information | Not Present | Rel-7 | RCS7-268 |
| DTX-DRX information | Not Present | Rel-7 | RCS7-269 |
| HS-SCCH less information | Not Present | Rel-7 | RCS7-270 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| MIMO parameters | Not Present | Rel-7 | RCS7-271 |
| Maximum allowed UL TX power | Not Present. Default value is the existing maximum UL TX power | | RCS7-272 |
| Uplink DPCH info | Not Present | | RCS7-273 |
| E-DCH info | Not Present | Rel-6 | RCS7-274 |
| Downlink HS-PDSCH information | Not Present | Rel-6 | RCS7-275 |
| Downlink information common for all radio links | Not Present | | RCS7-276 |
| Downlink information for each radio link list | Not Present | | RCS7-277 |

Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element | Value/remark | Version |
|---|---|---------|
| Message Type | | |
| RRC transaction identifier | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message. | |
| START list | This IE is checked to see if it is present. | |
| UE radio access capability | | |
| - Access stratum release indicator | Not checked | |
| - DL capability with simultaneous HS-DSCH configuration | Not checked | Rel-5 |
| - PDCP capability | Not checked | |
| - RLC capability | Not checked | |
| - Transport channel capability | Not checked | |
| - RF capability FDD | Not checked | |
| - RF capability TDD | Not checked | Rel-4 |
| - RF capability TDD 1.28 Mcps | Not checked | Rel-4 |
| - Physical channel capability | Not checked | |
| - UE multi-mode/multi-RAT capability | Not checked | |
| - Security capability | | |
| - Ciphering algorithm capability | | |
| >UEA0 | TRUE | |
| >UEA1 | To be checked against PICS | |
| >UEA2 | To be checked against PICS | Rel-7 |
| - Integrity protection algorithm capability | | |
| >UIA1 | TRUE | |
| >UIA2 | To be checked against PICS | Rel-7 |
| - UE positioning capability | Not checked | |
| - Measurement capability | Not checked | |
| - Measurement capability TDD | Not checked | Rel-8 |
| - Device type | Not checked | Rel-6 |
| - Support for System Information Block type 11bis | Not checked | Rel-6 |
| - Support for F-DPCH | Not checked | Rel-6 |
| - MAC-ehs support | To be checked against requirement if specified | Rel-7 |
| - UE specific capability Information LCR TDD | Not checked | Rel-7 |
| - Support for E-DPCCH Power Boosting | Not checked | Rel-7 |
| - Support of common E-DCH | To be checked against requirement if specified | Rel-8 |
| - Support of MAC-i/is | To be checked against requirement if specified | Rel-8 |
| - Support of SPS operation | To be checked against requirement if specified | Rel-8 |
| - Support of Control Channel DRX operation | To be checked against requirement if specified | Rel-8 |
| - Support of CSG | To be checked against requirement if specified | Rel-8 |
| - Support for Two DRX schemes in URA_PCH and CELL_PCH | Not checked | Rel-7 |
| - Support for E-DPDCH power interpolation formula | Not checked | Rel-7 |
| - Support for absolute priority based cell re-selection in UTRAN | To be checked against requirement if specified | Rel-8 |
| - Support of MU-MIMO | To be checked against requirement if specified | Rel-10 |
| - Radio Access Capability Band Combination List | To be checked against requirement if specified | Rel-9 |
| - Support of TX Diversity on DL Control Channels by MIMO Capable UE when MIMO operation is active | To be checked against requirement if specified | Rel-7 |
| - Support of enhanced TS0 | To be checked against requirement if specified | Rel-9 |
| - Support for cell-specific Tx diversity configuration for dual-cell operation | To be checked against requirement if specified | Rel-8 |
| - CSG proximity indication capability | To be checked against requirement if specified | Rel-9 |
| - Neighbour Cell SI acquisition capability | To be checked against requirement if specified | Rel-9 |
| - Extended measurements Support | To be checked against requirement if specified | Rel-9 |

| | | |
|--|--|--------|
| - Support for dual cell with MIMO operation in different bands | To be checked against requirement if specified | Rel-10 |
| - UE based network performance measurements parameters | To be checked against requirement if specified | Rel-10 |
| - Support of UTRAN ANR | To be checked against requirement if specified | Rel-10 |
| UE radio access capability extension | Not checked | |
| UE system specific capability | Not checked | |
| Deferred measurement control reading | Not checked | Rel-7 |
| Logged Meas Available | Not checked | Rel-10 |
| ANR Logging Results Available | Not checked | Rel-10 |
| Connection Establishment Failure Info Available | Not checked | Rel-11 |

Contents of SECURITY MODE COMMAND message: AM

| Information Element | Condition | Value/remark |
|---|-----------|---|
| Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message Sequence Number Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity | A1, A2 | Arbitrarily selects an integer between 0 and 3 Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. Set to an arbitrarily selected integer between 0 and 15 If ciphering is not indicated to be active on IXIT statements in 3GPP TS 34.123-2 [3], set this IE to TRUE. If ciphering is indicated to be active on IXIT statements in 3GPP TS 34.123-2 [3], set this IE to TRUE. FALSE 0000000000000010B (UIA1) TRUE FALSE This presence of this IE is dependent on IXIT statements in 3GPP TS 34.123-2 [3]. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Start/restart Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message. Not Present |
| - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE <i>system</i> - GSM security capability | A1 A2 | Current RLC SN+2 2 Current RLC SN+2 3 Current RLC SN + 2 4 Current RLC SN + 2 Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH Supported domain Not Checked GSM The indicated algorithms must be the same as |

| Information Element | Condition | Value/remark |
|---------------------|-----------|---|
| | | the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message. |

| Condition | Explanation |
|-----------|-----------------------|
| A1 | UE not supporting GSM |
| A2 | UE supporting GSM |

Contents of SECURITY MODE COMPLETE message: AM

| Information Element | Value/remark |
|--|--|
| Message Type | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message. |
| RRC transaction identifier | |
| Integrity check info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code | |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| Uplink integrity protection activation info | Not checked. |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all ciphered uplink RLC-UM and RLC-AM RBs. |

Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| Integrity check info | |
| - Message authentication code | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| - RRC Message sequence number | |
| CN domain identity | Checked to see if set to supported CN domain as specified in the IXIT statements |
| NAS message | Set according to that indicated in specific message content clause |
| Measured results on RACH | Not checked |

9.1.3 Default RRC Message Contents for MBSFN (TDD)

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version |
|--------------------------------------|-----------|------------------|---------|
| Message type | | | Rel-6 |
| MBMS preferred frequency information | | Not Present | Rel-6 |
| MBMS timers and counters | | | Rel-6 |
| - T318 | | Not Present (MD) | |
| MICH configuration information | | | Rel-6 |
| - MICH Power offset | | 0dB | |
| - CHOICE <i>mode</i> | | TDD | |
| - Timeslot Number | | 0 | |
| - Midamble shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps | |
| - CHOICE Burst Type | | MBSFN Burst Type | Rel-7 |

| Information Element | Condition | Value/remark | Version |
|---|-----------|---|---------|
| - CHOICE TDD option | | 3.84 Mcps TDD | |
| - Channelisation code | | 16/1 | |
| - Repetition period/length | | (16,2) | |
| - Offset | | 14 | |
| - MBMS Notification indicator length | | Not Present (MD - default value = 4) | |
| Cell group identity | | '000000000001' | Rel-6 |
| Default MSCH configuration information | | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | | Not Present (MD - default value = FALSE) | Rel-6 |
| MBSFN inter frequency neighbour list | | | Rel-7 |
| - MBSFN frequency | | | |
| - CHOICE <i>mode</i> | | TDD | |
| - UARFCN (Nt) | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2" | |
| - UARFCN (Nt) | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1" | |
| - CHOICE <i>MBSFN services notification</i> | | MBSFN services notified | |
| - no data | | | |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2 | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version |
|---|-----------|---|---------|
| Message type | | | Rel-6 |
| MBMS preferred frequency information | | Not Present | Rel-6 |
| MBMS timers and counters | | | Rel-6 |
| - T318 | | Not Present (MD) | |
| MICH configuration information | | | Rel-6 |
| - MICH Power offset | | 0dB | |
| - CHOICE <i>mode</i> | | TDD | |
| - Timeslot Number | | 1 | |
| - Midamble shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps | |
| - Codes list | | | Rel-7 |
| - Channelisation code | | 16/1 | |
| - MBSFN Special Time Slot | | TS7 | |
| - Repetition period/length | | (16,2) | |
| - Offset | | 14 | |
| - MBMS Notification indicator length | | Not Present (MD - default value = 4) | |
| Cell group identity | | '000000000001' | Rel-6 |
| Default MSCH configuration information | | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | | Not Present (MD - default value = FALSE) | Rel-6 |
| MBSFN inter frequency neighbour list | | | Rel-7 |
| - MBSFN frequency | | | |
| - CHOICE <i>mode</i> | | TDD | |
| - UARFCN (Nt) | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2" | |
| - UARFCN (Nt) | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1" | |
| - CHOICE <i>MBSFN services notification</i> | | MBSFN services notified | |
| - no data | | | |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2 | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version |
|---|-----------|---|---------|
| Message type | | | Rel-6 |
| MBMS preferred frequency information | | Not Present | Rel-6 |
| MBMS timers and counters | | | Rel-6 |
| - T318 | | Not Present (MD) | |
| MICH configuration information | | | Rel-6 |
| - MICH Power offset | | 0dB | |
| - CHOICE <i>mode</i> | | TDD | |
| - Timeslot Number | | 0 | |
| - Midamble shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps | |
| - CHOICE Burst Type | | MBSFN Burst Type | Rel-7 |
| - CHOICE TDD option | | 7.68 Mcps TDD | |
| - Channelisation code | | 32/1 | |
| - Repetition period/length | | (16,2) | |
| - Offset | | 14 | |
| - MBMS Notification indicator length | | Not Present (MD - default value = 4) | |
| Cell group identity | | '000000000001' | Rel-6 |
| Default MSCH configuration information | | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | | Not Present (MD - default value = FALSE) | Rel-6 |
| MBSFN inter frequency neighbour list | | | Rel-7 |
| - MBSFN frequency | | | |
| - CHOICE <i>mode</i> | | TDD | |
| - UARFCN (Nt) | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2" | |
| - UARFCN (Nt) | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1" | |
| - CHOICE <i>MBSFN services notification</i> | | MBSFN services notified | |
| - no data | | | |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2 | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---------|
| Message type | | | Rel-6 |
| MBMS preferred frequency information | | Not Present | Rel-6 |
| MBMS timers and counters | | | Rel-6 |
| - T318 | | Not Present (MD) | Rel-6 |
| MICH configuration information | | | Rel-6 |
| - MICH Power offset | | -5dB | Rel-6 |
| - CHOICE <i>Mode</i> | | 3.84 Mcps TDD MBSFN IMB | Rel-6 |
| - Channelisation code | | Reference to clause 5.5.2.1 "Downlink physical channels code allocation for signalling (3.84 Mcps TDD IMB)" | Rel-6 |
| - Number of NI per frame | | 18 | Rel-6 |
| - STTD indicator | | FALSE | Rel-6 |
| Cell group identity | | '000000000001' (cells with mid range UARFCN) | Rel-6 |
| Default MSCH configuration information | | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | | Not Present (MD-default value = FALSE) | Rel-6 |
| MBSFN inter frequency neighbour list | | | |
| MBSFN inter frequency neighbour list | | | Rel-7 |
| >MBSFN frequency | | | Rel-7 |
| >>CHOICE mode | | TDD | Rel-7 |
| >>>UARFCN (Nt) | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2" | Rel-7 |
| >>>UARFCN (Nt) | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1" | Rel-7 |
| >IMB indication | | TRUE | Rel-8 |
| >CHOICE MBSFN services notification | | MBSFN services notified | Rel-7 |
| >> no data | | | |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for cells on frequency "f1" (by default Cell 31) |
| A2 | This IE is needed for cells on frequency "f2" (by default Cell 33) |

Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element | Value/remark | Version |
|------------------------------------|---|---------|
| Message type | | Rel-6 |
| Modified service list | 1 entry per modified service - maximum 8. If no services are modified in the current modification period this IE is Not Present | Rel-6 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | | |
| - MBMS Service ID | Set to the value of the service ID being modified (e.g. '000001') | |
| - CHOICE <i>PLMN identity</i> | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | '01' | |
| - MBMS required UE action | Acquire PTM RB info | |
| - MBMS preferred frequency | Not Present | |
| - Continue MCCH reading | FALSE | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| MBMS re- acquire MCCH | Not Present | Rel-6 |
| MBMS dynamic persistence level | Not Present | Rel-6 |
| End of modified MCCH information | Not Present | Rel-6 |
| MBMS number of neighbour cells | 0 | Rel-6 |
| MBMS all unmodified p-t-m services | Not Present | Rel-6 |
| MBMS p-t-m activation time | Set to the 11 LSB of the first SFN of the next modification period. | Rel-6 |
| MIB Value tag | Not Present | Rel-7 |

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (Mixed Local/National carrier)

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| Message type | | Rel-6 |
| Unmodified service list | 8 services by default. See NOTE 1. | Rel-6 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 5) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 6) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (Local Service 1) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (Local Service 2) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 1) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 2) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 3) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 4) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |

| Condition | Information Element | Value/remark | Explanation |
|-----------|---------------------------|-----------------------|--|
| A1 | - MBMS Session ID | Not Present | Condition used when the session is currently not being transmitted |
| | - MBMS required UE action | 'None' | |
| A2 | - MBMS Session ID | '01' | Condition used when the session is currently ongoing |
| | - MBMS required UE action | 'Acquire PTM RB info' | |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

NOTE 2: By default the Mixed Local/National Carrier (on frequency "f2") is broadcast by Cell 33, Cell 34, Cell 35 and Cell 36.

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (Dedicated National carrier)

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| Message type | | Rel-6 |
| Unmodified service list | 8 services by default. See NOTE 1. | Rel-6 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 1) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 2) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 3) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 4) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | Not Present (MD) | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 5) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (National Service 6) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (Local Service 1) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |

| Information Element | Value/remark | Version |
|------------------------------|---|---------|
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |
| - MBMS Transmission identity | | |
| - MBMS Service ID | (Local Service 2) | |
| - MBMS Service ID | Refer to clause 11.2.4 "MBSFN service availability" | |
| - CHOICE PLMN identity | SameAs-MIB | |
| - no data | | |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | |
| - MBMS preferred frequency | Not Present | |
| - MBSFN cluster frequency | 1 | Rel-7 |

| Condition | Information Element | Value/remark | Explanation |
|-----------|---------------------------|-----------------------|--|
| A1 | - MBMS Session ID | Not Present | Condition used when the session is currently not being transmitted |
| | - MBMS required UE action | 'None' | |
| A2 | - MBMS Session ID | '01' | Condition used when the session is currently ongoing |
| | - MBMS required UE action | 'Acquire PTM RB info' | |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

NOTE 2: By default the Dedicated National Carrier (on frequency "f1") is broadcast by Cell 31, Cell 32, Cell 37 and Cell 38.

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element | Value/remark | Version |
|---------------------|--------------|---------|
|---------------------|--------------|---------|

| | | |
|------------------------------|--|-------|
| Message type | | Rel-6 |
| Unmodified services list | 8 services. See NOTE 1. | Rel-6 |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service1) | |
| - MBMS Service ID | 000001' refer to clause 11.2.4 "MBSFN service availability " | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | Not Present (MD) | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service2) | |
| - MBMS Service ID | 000010' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | Not Present (MD) | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service3) | |
| - MBMS Service ID | 000011' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | Not Present (MD) | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service4) | |
| - MBMS Service ID | 000100' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | Not Present (MD) | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service5) | |
| - MBMS Service ID | 000101' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |

| | | |
|------------------------------|---|-------|
| - MBSFN cluster frequency | 1 | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service6) | |
| - MBMS Service ID | 000110' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | 1 | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service7) | |
| - MBMS Service ID | 000111' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | 1 | |
| - MBMS Transmission identity | | Rel-6 |
| - MBMS Service ID | (service8) | |
| - MBMS Service ID | 001000' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity | SameAs-MIB | Rel-6 |
| - MBMS Session ID | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS required UE action | Value set according to table for condition A1 or A2 | Rel-6 |
| - MBMS preferred frequency | Not Present | Rel-6 |
| - MBSFN cluster frequency | 1 | |

| Condition | Information Element | Value/remark | Explanation |
|-----------|---------------------------|-----------------------|--|
| A1 | - MBMS Session ID | Not Present | Condition used when the session is currently not being transmitted |
| | - MBMS required UE action | 'None' | |
| A2 | - MBMS Session ID | '01' | Condition used when the session is currently ongoing |
| | - MBMS required UE action | 'Acquire PTM RB info' | |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (3.84 Mcps)

| Information Element | Condition | Value/remark | Version |
|--|-----------|-----------------------|---------|
| Message type | | | Rel-6 |
| RB information list | | 2 entries in the list | Rel-6 |
| - RB identity | | | |
| - MBMS Common RB identity | | 14 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| - RB identity | | | |
| - MBMS Common RB identity | | 15 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---------|
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| TrCh information for each TrCh | | 2 entries in the list | Rel-6 |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 1 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.10 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.10 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.10 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.10 "Parameter Set" | |
| - CRC size | | Reference to clause 6.10 "Parameter Set" | |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 2 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.10 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.10 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.10 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.10 "Parameter Set" | |
| - CRC size | | Reference to clause 6.10 "Parameter Set" | |
| TrCh information for each CCTrCh | | Not Present (Default TFCS applies for each CCTrCh) | Rel-6 |
| PhyCh information | | 2 entries in list | Rel-6 |
| - PhyCh identity | | | |
| - MBMS Common PhyCh identity | | 23 | |
| - Secondary CCPCH info MBMS | | | |
| - CHOICE <i>mode</i> | | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.10 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.10 "Parameter Set" | |
| - Downlink Timeslots and Codes | | | |
| - First individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps | |
| - Timeslot number | | 1 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps TDD | |
| - CHOICE Burst Type | | MBSFN Burst Type | Rel-7 |
| - no data | | | Rel-7 |
| - CHOICE <i>TDD option</i> | | 3.84Mcps TDD | |

| Information Element | Condition | Value/remark | Version |
|---------------------------------------|-----------|--|---------|
| - no data | | | |
| - First timeslot channelisation codes | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE <i>more timeslots</i> | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps | |
| - Timeslot number | | 8 | |
| - Modulation | | Reference to clause 6.10 "Parameter Set" | Rel-7 |
| - PhyCh identity | | | Rel-6 |
| - MBMS Common PhyCh identity | | 27 | |
| - Secondary CCPCH info MBMS | | | Rel-6 |
| - CHOICE <i>mode</i> | | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.10 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.10 "Parameter Set" | |
| - Downlink Timeslots and Codes | | | |
| - First individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps | |
| - Timeslot number | | 4 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps TDD | |
| - CHOICE Burst Type | | MBSFN Burst Type | Rel-7 |
| - no data | | | Rel-7 |
| - CHOICE <i>TDD option</i> | | 3.84Mcps TDD | |
| - no data | | | |
| - First timeslot channelisation codes | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE <i>more timeslots</i> | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 3.84 Mcps | |
| - Timeslot number | | 11 | |
| - Modulation | | Reference to clause 6.10 "Parameter Set" | Rel-7 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.10 "Parameter Set" |
| A2 | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.10 "Parameter Set" |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (1.28 Mcps)

| Information Element | Condition | Value/remark | Version |
|--|-----------|-----------------------|---------|
| Message type | | | Rel-6 |
| RB information list | | 2 entries in the list | Rel-6 |
| - RB identity | | | |
| - MBMS Common RB identity | | 14 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| - RB identity | | | |
| - MBMS Common RB identity | | 15 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---------|
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| TrCh information for each TrCh | | 2 entries in the list | Rel-6 |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 1 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.11 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.11 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.11 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.11 "Parameter Set" | |
| - CRC size | | Reference to clause 6.11 "Parameter Set" | |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 2 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.11 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.11 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.11 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.11 "Parameter Set" | |
| - CRC size | | Reference to clause 6.11 "Parameter Set" | |
| TrCh information for each CCTrCh | | Not Present (Default TFCS applies for each CCTrCh) | Rel-6 |
| PhyCh information | | 2 entries in list | Rel-6 |
| - PhyCh identity | | | |
| - MBMS Common PhyCh identity | | 23 | |
| - Secondary CCPCH info MBMS | | | |
| - CHOICE <i>mode</i> | | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.11 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.11 "Parameter Set" | |
| - Downlink Timeslots and Codes | | | |
| - First individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps | |
| - Timeslot number | | 1 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | |
| - Midamble Allocation Mode | | Common midamble | Rel-7 |
| - Midamble configuration | | 2 | Rel-7 |
| - CHOICE <i>TDD option</i> | | 1.28Mcps TDD | |

| Information Element | Condition | Value/remark | Version |
|---------------------------------------|-----------|--|---------|
| - Modulation | | Reference to clause 6.11 "Parameter Set" | |
| - SS-TPC Symbols | | 1 | |
| - Additional TPC-SS Symbols | | Not Present | |
| - First timeslot channelisation codes | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE <i>more timeslots</i> | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps | |
| - Timeslot number | | 2 | |
| - MBSFN Special Time Slot | | TS7 | Rel-7 |
| - Modulation | | Reference to clause 6.11 "Parameter Set" | Rel-7 |
| - PhyCh identity | | | Rel-6 |
| - MBMS Common PhyCh identity | | 27 | |
| - Secondary CCPCH info MBMS | | | Rel-6 |
| - CHOICE <i>mode</i> | | 1.28/3.84 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.11 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.11 "Parameter Set" | |
| - Downlink Timeslots and Codes | | | |
| - First individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps | |
| - Timeslot number | | 4 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps TDD | |
| - Midamble Allocation Mode | | Common midamble | |
| - Midamble configuration | | 2 | |
| - CHOICE <i>TDD option</i> | | 1.28Mcps TDD | |
| - Modulation | | Reference to clause 6.11 "Parameter Set" | |
| - SS-TPC Symbols | | 1 | |
| - Additional TPC-SS Symbols | | Not Present | |
| - First timeslot channelisation codes | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE <i>more timeslots</i> | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 1.28 Mcps | |
| - Timeslot number | | 4 | |
| - MBSFN Special Time Slot | | TS7 | Rel-7 |
| - Modulation | | Reference to clause 6.11 "Parameter Set" | Rel-7 |
| LCR TDD MBSFN information | | Not Present | Rel-7 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.11 "Parameter Set" |
| A2 | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.11 "Parameter Set" |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (7.68 Mcps)

| Information Element | Condition | Value/remark | Version |
|--|-----------|-----------------------|---------|
| Message type | | | Rel-7 |
| RB information list | | 2 entries in the list | Rel-7 |
| - RB identity | | | |
| - MBMS Common RB identity | | 14 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| - RB identity | | | |
| - MBMS Common RB identity | | 15 | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | | Not Present | |
| - Max PDCP SN window size | | Not Present | |
| - PDCP PDU header | | absent | |
| - Header compression information | | Not Present | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|---|---------|
| - RLC info | | | |
| - DL UM RLC LI size | | 15 | |
| - DL Duplication Avoidance and Reordering info | | Not Present | |
| - DL Out of sequence delivery info | | Not Present | |
| TrCh information for each TrCh | | 2 entries in the list | Rel-7 |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 1 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.10 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.10 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.10 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.10 "Parameter Set" | |
| - CRC size | | Reference to clause 6.10 "Parameter Set" | |
| - Transport channel identity | | | |
| - MBMS Common TrCh identity | | 2 | |
| - TFS | | | |
| - CHOICE <i>Transport channel type</i> | | Common transport channels | |
| - Dynamic Transport Format Information | | | |
| - RLC Size | | Reference to clause 6.10 "Parameter Set" | |
| - Number of TBs and TTI List | | (This IE is repeated for each TFI) | |
| - Number of Transport blocks | | Reference to clause 6.10 "Parameter Set" | |
| - CHOICE <i>mode</i> | | TDD | |
| - Transmission Time Interval | | Not Present | |
| - CHOICE <i>Logical Channel List</i> | | ALL | |
| - no data | | | |
| - Semi-static Transport Format information | | | |
| - Transmission time interval | | Reference to clause 6.10 "Parameter Set" | |
| - Type of channel coding | | Turbo | |
| - Coding Rate | | Not Present | |
| - Rate matching attribute | | Reference to clause 6.10 "Parameter Set" | |
| - CRC size | | Reference to clause 6.10 "Parameter Set" | |
| TrCh information for each CCTrCh | | Not Present (Default TFCS applies for each CCTrCh) | Rel-7 |
| PhyCh information | | 2 entries in list | Rel-7 |
| - PhyCh identity | | | |
| - MBMS Common PhyCh identity | | 23 | |
| - Secondary CCPCH info MBMS | | | |
| - CHOICE <i>mode</i> | | 7.68 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.10 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.10 "Parameter Set" | |
| - Downlink Timeslots and Codes VHCR | | | |
| - First Individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps option | |
| Timeslot number | | 1 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps TDD | |
| - CHOICE <i>Burst Type</i> | | MBSFN Burst Type | |
| - no data | | Default | |
| - CHOICE <i>TDD option</i> | | 7.68Mcps TDD | |

| Information Element | Condition | Value/remark | Version |
|--|-----------|--|---------|
| - no data | | | |
| - First timeslot channelisation codes VHCR | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE more timeslots | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps | |
| - Timeslot number | | 8 | |
| - Modulation | | Reference to clause 6.10 "Parameter Set" | |
| - PhyCh identity | | | |
| - MBMS Common PhyCh identity | | 27 | |
| - Secondary CCPCH info MBMS | | | |
| - CHOICE <i>mode</i> | | 7.68 Mcps TDD | |
| - Common timeslot info MBMS | | | |
| - 2 nd interleaving mode | | Frame | |
| - TFCI coding | | Reference to clause 6.10 "Parameter Set" | |
| - Puncturing limit | | Reference to clause 6.10 "Parameter Set" | |
| - Downlink Timeslots and Codes VHCR | | | |
| - First Individual timeslot info | | | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps option | |
| - Timeslot number | | 4 | |
| - TFCI existence | | TRUE | |
| - Midamble Shift and burst type | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps TDD | |
| - CHOICE <i>Burst Type</i> | | MBSFN Burst Type | |
| - no data | | Default | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps TDD | |
| - no data | | | |
| - First timeslot channelisation codes VHCR | | | |
| - CHOICE <i>codes representation</i> | | Consecutive codes | |
| - First channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - Last channelisation code | | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" | |
| - CHOICE more timeslots | A1 | No more timeslots | |
| - no data | | | |
| - CHOICE <i>more timeslots</i> | A2 | Timeslot list | |
| - Additional timeslot list | | | |
| - CHOICE <i>parameters</i> | | Same as last | |
| - Timeslot number | | | |
| - CHOICE <i>TDD option</i> | | 7.68 Mcps | |
| - Timeslot number | | 11 | |
| - Modulation | | Reference to clause 6.10 "Parameter Set" | |

| Condition | Explanation |
|-----------|---|
| A1 | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.10 "Parameter Set" |
| A2 | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.10 "Parameter Set" |

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|--------------|---------|
|---------------------|-----------|--------------|---------|

| | | | |
|--|----|---|-------|
| Message type | | | Rel-6 |
| MBMS preferred frequency information | | Not Present | Rel-6 |
| MBMS timers and counters | | | Rel-6 |
| - T318 | | Not Present (MD) | Rel-6 |
| MICH configuration information | | | Rel-6 |
| - MICH Power offset | | -5dB | Rel-6 |
| - CHOICE Mode | | 3.84 Mcps TDD MBSFN IMB | Rel-6 |
| - Channelisation code | | Reference to clause 5.5.2.1 "Downlink physical channels code allocation for signalling (3.84 Mcps TDD IMB)" | Rel-6 |
| - Number of NI per frame | | 18 | Rel-6 |
| - STTD indicator | | FALSE | Rel-6 |
| Cell group identity | | '000000000001' (cells with mid range UARFCN) | Rel-6 |
| Default MSCH configuration information | | Not Present | Rel-6 |
| Indicate changes in MBMS Selected Services | | Not Present (MD-default value = FALSE) | Rel-6 |
| MBSFN inter frequency neighbour list | | | |
| MBSFN inter frequency neighbour list | | | Rel-7 |
| >MBSFN frequency | | | Rel-7 |
| >>CHOICE mode | | TDD | Rel-7 |
| >>>UARFCN (Nt) | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2" | Rel-7 |
| >>>UARFCN (Nt) | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1" | Rel-7 |
| >IMB indication | | TRUE | Rel-8 |
| >CHOICE MBSFN services notification | | MBSFN services notified | Rel-7 |
| >> no data | | | |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for cells on frequency "f1" (by default Cell 31) |
| A2 | This IE is needed for cells on frequency "f2" (by default Cell 33) |

Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element | Condition | Value/remark | Version |
|--|------------|--|---------|
| Message type | A1, A2, A3 | | Rel-6 |
| S-CCPCH list | A1 | Not Present | Rel-6 |
| S-CCPCH list | A2 | Contains 1 S-CCPCH | Rel-6 |
| S-CCPCH list | A3 | Contains 2 S-CCPCH | Rel-6 |
| - S-CCPCH identity | | Not Present | |
| - Secondary CCPCH info | A2, A3 | 23 | |
| - MBMS Soft Combining Timing Offset | | Not Present | |
| - TrCh information common for all TrCh | | Not Present (MD) | |
| - TrCH information list | A2, A3 | | |
| - TrCh information | | 1 | |
| - RB information list | | | |
| - RB information | | | |
| - RB information | | 14 | |
| - MBMS short transmission ID | | Reference to the service which is being provided on this RB. See Note 1. | |
| - MBMS logical channel identity | | 1 | |
| - L1 combining status | | Not Present | |
| - MSCH configuration information | | Not Present | |
| - S-CCPCH identity | | Not Present | |
| - Secondary CCPCH info | A3 | 27 | |
| - MBMS Soft Combining Timing Offset | | Not Present | |
| - TrCh information common for all TrCh | | Not Present (MD) | |
| - TrCH information list | A3 | | |
| - TrCh information | | 2 | |
| - RB information list | | | |
| - RB information | | | |
| - RB information | | 15 | |
| - MBMS short transmission ID | | Reference to the service which is being provided on this RB. See Note 1. | |
| - MBMS logical channel identity | | 2 | |
| - L1 combining status | | Not Present | |
| - MSCH configuration information | | Not Present | |
| S-CCPCH in SIB type 5 | | Not Present | Rel-6 |
| MBSFN TDM Info List | | Not Present | Rel-7 |

| Condition | Explanation |
|-----------|---------------------------------|
| A1 | No services ongoing or starting |
| A2 | 1 service ongoing or starting |
| A3 | 2 services ongoing or starting |

NOTE 1: MBMS short transmission ID is an index to a service in a list of services. The list is compiled by concatenating, in the following order, the lists of services from the MBMS MODIFIED SERVICES INFORMATION message and the MBMS UNMODIFIED SERVICES INFORMATION messages transmitted in the same modification period as this message.

9.1.4 Default Message Contents for WLAN interworking

Contents of Router Advertisement message:

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|---------------|---------|
| Type | | '10000110'B | |
| Code | | '00000000'B | |
| Checksum | | Set by SS | |
| Cur Hop Limit | | '00000000'B | |
| M | | Set by the SS | |
| O | | Set by the SS | |
| H | | '0'B | |

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|---|---------|
| Prf | | Set by the SS | |
| Prf | | Set by the SS | |
| P | | Set by the SS | |
| Reserved | | '00000'B | |
| Router Lifetime | | Set by the SS | |
| Reachable Time | | Set by the SS | |
| Retrans Timer | | Set by the SS | |
| type | | '00000011'B | |
| Length | | '00000100'B | |
| Prefix length | | Set by the SS | |
| L | | '1'B | |
| A | | Set by the SS | |
| Valid Lifetime | | Set by the SS | |
| Preferred Lifetime | | Set by the SS | |
| Prefix | | Set according to specific message content | |

Contents of Binding Update message:

| Information Element | Condition | Value/remark | Version |
|----------------------------------|-----------|--|---------|
| IPv4 Source Address | A1 | UE IPv4 CoA (IPv4 address acquired by UE during network attachment) | |
| IPv4 Destination Address | A1 | IPv4 of Home Agent discovered during preamble | |
| UDP header | A1 | | |
| Source Port | A1 | Set by UE | |
| Destination port | A1 | '0001000001011111'B | |
| IPv6 Source Address | A1, A2 | IPv6 Home Address configured by the UE from Home Network Prefix assigned to UE during preamble | |
| IPv6 Source Address | A3 | UE IPv6 CoA (IPv6 address acquired by the UE during network attachment) | |
| IPv6 Destination Address | | IPv6 of Home Agent discovered during preamble | |
| Destination Header | A3 | IPv6 Home Address configured by the UE from Home Network Prefix assigned to the UE during preamble | |
| Payload Proto | | '00111011'B | |
| MH Type | | '00000101'B (Binding Update message) | |
| Sequence Number | | Any allowed value | |
| Lifetime | | Any allowed non-zero value | |
| A | | '1'B | |
| H | | '1'B | |
| L | | Not checked | |
| K | | '1'B | |
| M | | '0'B | |
| R | | '1'B | |
| P | | '0'B | |
| F | | '0'B | |
| IPv4 Home Address option | | Set according to specific message content | |
| Alternate Care-of Address Option | | Set according to specific message content | |

| Condition | Explanation |
|-----------|---|
| A1 | UE is in an IPv4 visited network (see RFC 5555) |
| A2 | UE is in an IPv6 home network (see RFC 5555) |
| A3 | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Acknowledgement message:

| Information Element | Condition | Value/remark | Version |
|-------------------------------------|-----------|--|---------|
| IPv4 Source Address | A1 | IPv4 Home Agent address | |
| IPv4 Destination Address | A1 | Same value as UE IPv4 CoA in IP Source Address from Binding Update | |
| UDP header | A1 | | |
| Source Port | A1 | '0001000001011111'B | |
| Destination port | A1 | Same as Source port in Binding Update | |
| IPv6 Source Address | | IPv6 Home Agent address | |
| IPv6 Destination Address | A3 | Same value as UE IPv6 CoA in IP Source Address from Binding Update | |
| IPv6 Destination Address | A1, A2 | IPv6 Home Address | |
| Routing Header | A3 | Same value as UE IPv6 Home Address in Destination Header from Binding Update | |
| Payload Proto | | '00111011'B | |
| MH Type | | '00000110'B (Binding Acknowledgement message) | |
| Status | | '00000000'B (Binding Update accepted) | |
| K | | Set by the SS | |
| R | | '1'B | |
| P | | '0'B | |
| Sequence Number | | Same value as that sent by the UE in the Binding Update | |
| Lifetime | | '0000000010010110'B (10 min) | |
| IPv4 Address Acknowledgement option | | Optional: field present if IPv4 Home Address option was included by the UE in Binding Update at Step 2. Set to the IPv4 Home Address allocated to the UE | |
| Binding Refresh Advice option | | '0000000010010110'B (10 min) | |

| Condition | Explanation |
|-----------|---|
| A1 | UE is in an IPv4 visited network (see RFC 5555) |
| A2 | UE is in an IPv6 home network (see RFC 5555) |
| A3 | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Revocation Indication message:

| Information Element | Condition | Value/remark | Version |
|--------------------------|-----------|--|---------|
| IPv4 Source Address | A1 | IPv4 Home Agent address | |
| IPv4 Destination Address | A1 | Same value as UE IPv4 CoA in IP Source Address from Binding Update | |
| UDP header | A1 | | |
| Source Port | A1 | '0001000001011111'B | |
| Destination port | A1 | Same as Source port in Binding Update | |
| IPv6 Source Address | | IPv6 Home Agent address | |
| IPv6 Destination Address | A2 | Same value as UE IPv6 CoA in IP Source Address from Binding Update | |
| IPv6 Destination Address | A1 | IPv6 Home Address | |
| Routing Header | A2 | Same value as UE IPv6 Home Address in Destination Header from Binding Update | |
| B.R. Type | | '00000001'B (B.R.I) | |
| Sequence Number | | Set by the SS | |
| Revocation Trigger | | '00000001'B | |
| P | | '0'B | |
| G | | '0'B | |
| V | | '0'B | |

| Condition | Explanation |
|-----------|---|
| A1 | UE is in an IPv4 visited network (see RFC 5555) |
| A2 | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Revocation Acknowledgement message:

| Information Element | Condition | Value/remark | Version |
|--------------------------|-----------|--|---------|
| IPv4 Source Address | A1 | UE IPv4 CoA (IPv4 address acquired by UE during network attachment) | |
| IPv4 Destination Address | A1 | IPv4 of Home Agent discovered during preamble | |
| UDP header | A1 | | |
| Source Port | A1 | Set by UE | |
| Destination port | A1 | '0001000001011111'B | |
| IPv6 Source Address | A1 | IPv6 Home Address configured by the UE from Home Network Prefix assigned to UE during preamble | |
| IPv6 Source Address | A2 | UE IPv6 CoA (IPv6 address acquired by the UE during network attachment) | |
| IPv6 Destination Address | | IPv6 of Home Agent discovered during preamble | |
| Destination Header | A2 | IPv6 Home Address configured by the UE from Home Network Prefix assigned to the UE during preamble | |
| B.R. Type | | '00000010'B (B.R.A) | |
| Sequence Number | | Same value as Sequence Number sent by the SS in Binding Revocation Indication message | |
| Status | | '00000000'B (Success) | |
| P | | '0'B | |
| G | | '0'B | |
| V | | '0'B | |

| Condition | Explanation |
|-----------|---|
| A1 | UE is in an IPv4 visited network (see RFC 5555) |
| A2 | UE is in an IPv6 visited network (see RFC 5555) |

9.1.5 Default Message Contents for Supplementary Services

9.1.5.1 Default contents for RRC messages

Contents of RRC CONNECTION REQUEST message: TM

IEs not listed below should be set and checked according to 9.1.1 or 9.1.2.

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|--------------------------------------|---------|
| Establishment cause | | Originating High Priority Signalling | |

9.1.5.2 Default contents for NAS messages

9.1.5.2.1 Default contents for MM messages

Contents of MM INFORMATION:

| Information Element | Condition | Value/remark | Version |
|------------------------------------|-----------|--------------|---------|
| Full name for network | | Not present | |
| Short name for network | | Not present | |
| Local time zone | | Not present | |
| Universal time and local time zone | | Not present | |
| LSA Identity | | Not present | |
| Network Daylight Saving Time | | Not present | |

NOTE: In the test case specific message contents at least one of these IE's shall be specified as present.

9.1.5.2.2 Default contents for CC messages

Contents of CM SERVICE REQUEST message:

| Information Element | Condition | Value/remark | Version |
|-------------------------------|-----------|---------------|---------|
| CM service type | SS | '1000' B | |
| | CC | '0001' B | |
| Ciphering key sequence Number | | Correct value | |
| Mobile station classmark | | Not checked | |
| Mobile identity | | TMSI | |
| Priority | | Not present | |

| Condition | Explanation |
|-----------|--|
| SS | For Supplementary Services Activation |
| CC | For Mobile originated Call Establishment or packet mode connection establishment |

Contents of FACILITY with Invoke component:

| Information Element | Condition | Value/remark | Version |
|----------------------------------|---|--|---------|
| Protocol discriminator | | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages) | |
| Transaction identifier | | See the specific test case | |
| Message Type | | 0011 1010 B, if the message is sent by the SS xx 11 1010 B, if the message is sent by the UE (NOTE) | |
| Facility IE | | | |
| - Length of Facility IE contents | | 8 | |
| - Component type tag | | 1010 0001 B (invoke) | |
| - Component length | | 6 | |
| - Invoke ID tag | | 0000 0010 B (invoke ID) | |
| - Invoke ID length | | 1 | |
| - Invoke ID | | An arbitrary integer value. The same value must be used in the subsequent corresponding Return Result, Return Error or Reject component. | |
| - Linked ID tag | | Not present | |
| - Linked ID length | | Not present | |
| - Linked ID | | Not present | |
| - Operation Code tag | | 0000 0010 B | |
| - Operation Code length | | 1 | |
| - Operation Code | | See the specific test case | |
| - Parameters | | Not present | |
| SS Version Indicator | | Not checked, IE not present if message is sent by SS. | |
| NOTE: | Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. | | |

Contents of FACILITY with Reject component:

| Information Element | Condition | Value/remark | Version |
|---|-----------|--|---------|
| Protocol discriminator | | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages) | |
| Transaction identifier | | See the specific test case | |
| Message Type | | 0011 1010 B, if the message is sent by the SS xx 11 1010 B, if the message is sent by the UE (NOTE) | |
| Facility IE | | | |
| - Length of Facility IE contents | | 8 | |
| - Component type tag | | 1010 0100 B (reject) | |
| - Component length | | 6 | |
| - Invoke ID tag | | 0000 0010 B (invoke ID) | |
| - Invoke ID length | | 1 | |
| - Invoke ID | | The same value that has been used in the corresponding Invoke component. | |
| - Problem Code tag | | See the specific test case | |
| - Problem Code length | | 1 | |
| - Problem Code | | See the specific test case | |
| SS Version Indicator | | Not checked, IE not present if message is sent by SS. | |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. | | | |

Contents of FACILITY with Return Error component:

| Information Element | Condition | Value/remark | Version |
|---|-----------|--|---------|
| Protocol discriminator | | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages) | |
| Transaction identifier | | See the specific test case | |
| Message Type | | 0011 1010 B, if the message is sent by the SS xx 11 1010 B, if the message is sent by the UE (NOTE) | |
| Facility IE | | | |
| - Length of Facility IE contents | | 8 | |
| - Component type tag | | 1010 0011 B (return error) | |
| - Component length | | 6 | |
| - Invoke ID tag | | 0000 0010 B (invoke ID) | |
| - Invoke ID length | | 1 | |
| - Invoke ID | | The same value that has been used in the corresponding Invoke component. | |
| - Error Code tag | | 0000 0010 B | |
| - Error Code length | | 1 | |
| - Error Code | | See the specific test case | |
| - Parameters | | Not present | |
| SS Version Indicator | | Not checked, IE not present if message is sent by SS. | |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. | | | |

Contents of FACILITY with Return Result component:

| Information Element | Condition | Value/remark | Version |
|---|-----------|--|---------|
| Protocol discriminator | | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages) | |
| Transaction identifier | | See the specific test case | |
| Message Type | | 0011 1010 B, if the message is sent by the SS xx 11 1010 B, if the message is sent by the UE (NOTE) | |
| Facility IE | | | |
| - Length of Facility IE contents | | 5 | |
| - Component type tag | | 1010 0010 B (return result) | |
| - Component length | | 3 | |
| - Invoke ID tag | | 0000 0010 B (invoke ID) | |
| - Invoke ID length | | 1 | |
| - Invoke ID | | The same value that has been used in the corresponding Invoke component. | |
| - Sequence tag | | Not present | |
| - Sequence length | | Not present | |
| - Operation Code tag | | Not present (omitted if the Return Result component does not include any parameters) | |
| - Operation Code length | | Not present | |
| - Operation Code | | Not present | |
| - Parameters | | Not present | |
| SS Version Indicator | | Not checked, IE not present if message is sent by SS. | |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. | | | |

Contents of RELEASE COMPLETE message with *Return error* component:

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|--|---------|
| Cause | | Test case specific | |
| location | | Test case specific | |
| Cause value | | Test case specific | |
| Facility | | | |
| Component type tag | | '10100011' B | |
| Component length | | calculated | |
| Invoke ID | | Same as the one sent by the UE in the FACILITY message | |
| Error Code tag | | '00000010' B | |
| Error Code length | | calculated | |
| Error Code | | Test case specific | |
| Parameters | | Test case specific | |
| User-user | | Not present | |

Contents of RELEASE COMPLETE message with *Return result* component:

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|--|---------|
| Cause | | Normal event | |
| Facility | | | |
| Component type tag | | '10100010' B | |
| Component length | | calculated | |
| Invoke ID | | Same as the one sent by the UE in the FACILITY message | |
| Operation code | | Not present | |
| Parameters | | Not present | |

9.1.5.2.3 Default contents for GMM messages

Contents of GMM INFORMATION:

| Information Element | Condition | Value/remark | Version |
|--|-----------|--------------|---------|
| Full name for network | | Not present | |
| Short name for network | | Not present | |
| Local time zone | | Not present | |
| Universal time and local time zone | | Not present | |
| LSA Identity | | Not present | |
| Network Daylight Saving Time | | Not present | |
| NOTE: In the test case specific message contents at least one of these IE's shall be specified as present. | | | |

9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2 kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

| Information Element | Value/remark |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 44h |

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

| Information Element | Value/remark |
|------------------------------|-----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 40h |
| UE test loop mode | 00h |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

| Information Element | Value/remark |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 40h |
| UE test loop mode | 01h |

Contents of Open UE Test Loop message

| Information Element | Value/remark |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 42h |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM

| Information Element | Value/remark | Version |
|--|---|---------|
| Message type | | Rel-6 |
| RB information list | One entry in the list | Rel-6 |
| - RB identity | 14 | Rel-6 |
| - PDCP info | | |
| - Support for lossless SRNS relocation | Not Present | |
| - PDCP PDU header | Absent | |
| - Header compression information | Not Present | |
| - RLC info | | |
| - DL UM RLC LI size | Selected with DL UM RLC data size | |
| - DL Duplication Avoidance and Reordering info | Not Present | |
| TrCh information for each TrCh | One entry in the list | Rel-6 |
| - Transport channel identity | 17 | Rel-6 |
| - TFS | | |
| - CHOICE <i>Transport channel type</i> | Common transport channels | |
| - Dynamic Transport format information | | |
| - RLC Size | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - Number of TBs List | (This IE is repeated for TFI number.) | |
| - Transmission Time Interval | Not Present | |
| - Number of Transport blocks | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - CHOICE <i>Logical channel list</i> | All | |
| - Semi-static Transport Format information | | |
| - Transmission time interval | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - Type of channel coding | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - Coding Rate | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - Rate matching attribute | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| - CRC size | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2]. | |
| TrCh information for each CCTrCh | One entry in the list | Rel-6 |
| - CCTrCH identity | 1 | Rel-6 |
| - TFCS | | |
| - CHOICE <i>TFCI signalling</i> | Normal | |
| - TFCI Field 1 information | | |
| - CHOICE <i>TFCS representation</i> | Complete reconfiguration | |
| - TFCS complete reconfiguration information | | |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from TS34.121 [2] Annex C.12 parameter set or as specified within test case in TS34.121 [2]. | |
| - CTFC information | This IE is repeated for number of CTFCs from TS34.121 [2] Annex C.12 | |

| Information Element | Value/remark | Version |
|-----------------------------|--|---------|
| | parameter set or as specified within test case in TS34.121 [2]. | |
| - CTFC | Reference to TS34.121 [2] Annex C.12 parameter set or as specified within test case in TS34.121 [2]. | |
| - Power offset information | Not Present | |
| PhyCh information | One entry in list | Rel-6 |
| - PhyCh identity | 13 | Rel-6 |
| - Secondary CCPCH info MBMS | | |
| - CHOICE <i>mode</i> | FDD | |
| - Secondary scrambling code | Not Present | |
| - STTD indicator | FALSE | |
| - Spreading factor | Reference to TS34.121 [2] Annex C.12 DL reference parameters. | |
| - Code number | Reference to TS34.121 [2] Annex E.6.4 "Downlink physical channels code allocation for MBMS test cases" | |
| - Timing Offset | Not Present Absence of this IE is equivalent to default value 0. | |

Contents of PAGING TYPE 1 message: TM (CS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| -Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Streaming Call |
| - CN domain identity | CS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of PAGING TYPE 1 message: TM (PS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| -Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Interactive Call |
| - CN domain identity | PS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of PAGING TYPE 2 message: TM (PS)

| Information Element | Value/remark |
|---------------------------------|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects one integer between 0 to 3 |
| Integrity check info | |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| - Paging cause | Terminating Interactive Call |
| - CN domain identity | PS domain |
| - Paging record type identifier | TMSI(GSM-MAP)/P-TMSI |

Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------------|--------------------------------|--|--------------------|----------|
| Message Type | A1, A3, A4, A5, A6, A7, A8, A9 | | | RBST-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBST-002 |
| Integrity check info | | | | RBST-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBST-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBST-005 |
| Integrity protection mode info | | Not Present | | RBST-006 |
| Ciphering mode info | | Not Present | | RBST-007 |
| Activation time | | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ | | RBST-008 |
| New U-RNTI | | Not Present | | RBST-009 |
| New C-RNTI | | Not Present | | RBST-010 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBST-011 |
| New H-RNTI | | Not Present | Rel-5 | RBST-012 |
| New Primary E-RNTI | | Not Present | Rel-6 | RBST-013 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBST-014 |
| RRC State indicator | | CELL_DCH | | RBST-015 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBST-016 |
| CN information info | | Not Present | | RBST-017 |
| URA identity | | Not Present | | RBST-018 |
| CHOICE specification mode | | Complete specification | Rel-6 | RBST-019 |
| - Signalling RB information to setup | | Not Present | | RBST-020 |
| - RAB information for setup list | A1, A3, A4, A5 | | | RBST-021 |
| - RAB information for setup | | | | RBST-022 |
| - RAB info | | 0000 0001B | | RBST-023 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBST-024 |
| - CN domain identity | | CS domain | | RBST-025 |
| - NAS Synchronization Indicator | | Not Present | | RBST-026 |
| - Re-establishment timer | | UseT314 | | RBST-027 |
| - RB information to setup list | | | | RBST-028 |
| - RB information to setup | | | | RBST-029 |
| | | | | RBST-030 |
| - RAB information for setup list | A6, A7, A8, A9 | | | RBST-031 |
| - RAB information for setup | | | | RBST-032 |
| - RAB info | | 0000 0101B | | RBST-033 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBST-034 |
| - CN domain identity | | PS domain | | RBST-035 |
| - NAS Synchronization Indicator | | Not Present | | RBST-036 |
| - Re-establishment timer | | UseT315 | | RBST-037 |
| - RB information to setup list | | | | RBST-038 |
| - RB information to setup | | | | RBST-039 |
| | | | | RBST-040 |
| - RB identity | A1 | 10 | | RBST-041 |
| - PDCP info | | Not Present | | RBST-042 |
| - CHOICE RLC info type | | RLC info | | RBST-043 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBST-044 |
| - Transmission RLC discard | | Not Present | | RBST-045 |
| - Segmentation indication | | FALSE | | RBST-046 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBST-047 |
| - Segmentation indication | | FALSE | | RBST-048 |
| - One sided RLC re-establishment | | FALSE | | RBST-049 |
| - RB mapping info | | | Rel-5 | RBST-050 |
| - Information for each multiplexing | | | | RBST-051 |

| Information Element | Condition | Value/remark | Version | Index |
|--|------------|--|---------|----------|
| option | | | | |
| - RLC logical channel mapping indicator | | Not Present | | RBST-052 |
| - Number of uplink RLC logical channels | | 1 | | RBST-053 |
| - Uplink transport channel type | | DCH | | RBST-054 |
| - UL Transport channel identity | | 1 | | RBST-055 |
| - Logical channel identity | | Not Present | | RBST-056 |
| - CHOICE RLC size list | | Configured | | RBST-057 |
| - MAC logical channel priority | | 7 | | RBST-058 |
| - Downlink RLC logical channel info | | | | RBST-059 |
| - Number of downlink RLC logical channels | | 1 | | RBST-060 |
| - Downlink transport channel type | | DCH | | RBST-061 |
| - DL DCH Transport channel identity | | 6 | | RBST-062 |
| - DL DSCH Transport channel identity | | Not Present | | RBST-063 |
| - Logical channel identity | | Not Present | | RBST-064 |
| - RB identity | A3, A4, A5 | 10 | | RBST-065 |
| - PDCP info | | Not Present | | RBST-066 |
| - CHOICE RLC info type | | RLC info | | RBST-067 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBST-068 |
| - Transmission RLC discard | | | | RBST-069 |
| - CHOICE SDU discard mode | | No Discard | | RBST-070 |
| - MAX_DAT | | 15 | | RBST-071 |
| - Transmission window size | | Selected with Total RLC AM Buffer Size | | RBST-072 |
| - Timer_RST | | 500 | | RBST-073 |
| - Max_RST | | 4 | | RBST-074 |
| - Polling info | | | | RBST-075 |
| - Timer_poll_prohibit | | 400 | | RBST-076 |
| - Timer_poll | | 400 | | RBST-077 |
| - Poll_PDU | | Not Present | | RBST-078 |
| - Poll_SDU | | 1 | | RBST-079 |
| - Last transmission PDU poll | | TRUE | | RBST-080 |
| - Last retransmission PDU poll | | TRUE | | RBST-081 |
| - Poll_Windows | | 99 | | RBST-082 |
| - Timer_poll_periodic | | Not Present | | RBST-083 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBST-084 |
| - DL RLC PDU size | A3 | 1280 bits | Rel-5 | RBST-085 |
| - DL RLC PDU size | A4 | 2880 bits | Rel-5 | RBST-086 |
| - DL RLC PDU size | A5 | 3840 bits | Rel-5 | RBST-087 |
| - In-sequence delivery | A3, A4, A5 | TRUE | | RBST-088 |
| - Receiving window size | | Selected with Total RLC AM Buffer Size | | RBST-089 |
| - Downlink RLC status info | | | | RBST-090 |
| - Timer_status_prohibit | | 330 | | RBST-091 |
| - Timer_EPC | | Not Present | | RBST-092 |
| - Missing PDU indicator | | TRUE | | RBST-093 |
| - Timer_STATUS_periodic | | Not Present | | RBST-094 |
| - One sided RLC re-establishment | | FALSE | | RBST-095 |
| - RB mapping info | | | Rel-5 | RBST-096 |
| - Information for each multiplexing option | | | | RBST-097 |
| - RLC logical channel mapping indicator | | Not Present | | RBST-098 |
| - Number of uplink RLC logical channels | | 1 | | RBST-099 |
| - Uplink transport channel type | | DCH | | RBST-100 |
| - UL Transport channel identity | | 1 | | RBST-101 |
| - Logical channel identity | | Not Present | | RBST-102 |
| - CHOICE RLC size list | | Configured | | RBST-103 |
| - MAC logical channel priority | | 7 | | RBST-104 |
| - Downlink RLC logical channel info | | | | RBST-105 |
| - Number of downlink RLC logical channels | | 1 | | RBST-106 |
| - Downlink transport channel type | | DCH | | RBST-107 |
| - DL DCH Transport channel identity | | 6 | | RBST-108 |

| Information Element | Condition | Value/remark | Version | Index |
|--|----------------------|---|----------------------------------|--|
| identity - DL DSCH Transport channel | | Not Present | | RBST-109 |
| identity - Logical channel identity | | Not Present | | RBST-110 |
| - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode | A6, A7, A8, A9 | 20 Not present RLC info AM RLC No Discard 15 Selected with Total RLC AM Buffer Size 500 4 400 400 Not Present 1 TRUE TRUE 99 Not Present AM RLC | | RBST-111 RBST-112 RBST-113 RBST-114 RBST-115 RBST-116 RBST-117 RBST-118 RBST-119 RBST-120 RBST-121 RBST-122 RBST-123 RBST-124 RBST-125 RBST-126 RBST-127 RBST-128 RBST-129 RBST-130 |
| - DL RLC PDU size - DL RLC PDU size - DL RLC PDU size - DL RLC PDU size | A6 A7 A8 A9 | 1280 bits 2880 bits 3840 bits 336 bits | Rel-5 Rel-5 Rel-5 Rel-5 | RBST-131 RBST-132 RBST-133 RBST-134 |
| - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - One sided RLC re-establishment - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list | A6, A7, A8, A9 | TRUE Selected with Total RLC AM Buffer Size 330 Not Present TRUE Not Present FALSE 2 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6 Not Present Not Present 1 RACH Not Present 7 Explicit list | Rel-5 | RBST-135 RBST-136 RBST-137 RBST-138 RBST-139 RBST-140 RBST-141 RBST-142 RBST-143 RBST-144 RBST-145 RBST-146 RBST-147 RBST-148 RBST-149 RBST-150 RBST-151 RBST-152 RBST-153 RBST-154 RBST-155 RBST-156 RBST-157 RBST-158 RBST-159 RBST-160 RBST-161 RBST-162 RBST-163 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------|---------------------------------------|----------|----------|
| - RLC size index | | Reference to clause 6 Parameter Set 8 | | RBST-164 |
| - MAC logical channel priority | | | | RBST-165 |
| - Downlink RLC logical channel info | | | | RBST-166 |
| - Number of downlink RLC logical channels | | 1 | | RBST-167 |
| - Downlink transport channel type | | FACH | | RBST-168 |
| - DL DCH Transport channel identity | | Not Present | | RBST-169 |
| - DL DSCH Transport channel identity | | Not Present | | RBST-170 |
| - Logical channel identity | | 7 | | RBST-171 |
| RB information to reconfigure list | A1, A3, A4, A5, A6, A7, A8, A9 | Not Present | Rel-6 | RBST-172 |
| RB information to be affected list | | Not Present | Rel-5 | RBST-173 |
| Downlink counter synchronization info | | Not Present | | RBST-174 |
| PDCP ROHC target mode | | Not Present | | RBST-175 |
| UL Transport channel information for all transport channels | | | | RBST-176 |
| - PRACH TFCS | | Not Present | | RBST-177 |
| - CHOICE mode | | FDD | | RBST-178 |
| - TFC subset | | Not Present | | RBST-179 |
| - UL DCH TFCS | | | | RBST-180 |
| - CHOICE TFCl signalling | | Normal | | RBST-181 |
| - TFCl Field 1 information | | | | RBST-182 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBST-183 |
| - TFCS complete reconfigure information | | | | RBST-184 |
| - CHOICE CTFC Size | | 2 bit CTFC | | RBST-185 |
| - CTFC information | | 4 TFCs | | RBST-186 |
| - 2bit CTFC | | 0 | | RBST-187 |
| -Power offset Information | | | | RBST-188 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-189 |
| - Reference TFC ID | | 0 | | RBST-190 |
| - CHOICE mode | | FDD | | RBST-191 |
| - Power offset P_{p-m} | | Not Present | | RBST-192 |
| - 2bit CTFC | | 2 | | RBST-193 |
| - Power offset Information | | | | RBST-194 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-195 |
| - Reference TFC ID | | 0 | | RBST-196 |
| - CHOICE mode | | FDD | | RBST-197 |
| - Power offset P_{p-m} | | Not Present | | RBST-198 |
| - 2bit CTFC | | 1 | | RBST-199 |
| - Power offset Information | | | RBST-200 | |
| - CHOICE Gain Factors | | Computed Gain Factors | RBST-201 | |
| - Reference TFC ID | | 0 | RBST-202 | |
| - CHOICE mode | | FDD | RBST-203 | |
| - Power offset P_{p-m} | | Not Present | RBST-204 | |
| - 2bit CTFC | | 3 | RBST-205 | |
| - Power offset Information | | | RBST-206 | |
| - CHOICE Gain Factors | | Signalled Gain Factors | RBST-207 | |
| - CHOICE mode | | FDD | RBST-208 | |
| - Gain factor β_c | | 8 | RBST-209 | |
| - Gain factor β_d | | 15 | RBST-210 | |
| - Reference TFC ID | | 0 | RBST-211 | |
| - CHOICE mode | | FDD | RBST-212 | |
| - Power offset P_{p-m} | | Not Present | RBST-213 | |
| Deleted UL TrCH information list | | Not Present | | RBST-214 |
| Added or Reconfigured TrCH information list | A1 | 1 | | RBST-215 |
| - Added or Reconfigured UL TrCH information | | | | RBST-216 |
| - Uplink transport channel type | | DCH | | RBST-217 |
| - UL Transport channel identity | | 1 | | RBST-218 |
| - TFS | | | | RBST-219 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBST-220 |

| Information Element | Condition | Value/remark | Version | Index |
|---|----------------------------|------------------------------|---------|----------|
| - Dynamic Transport Format Information | | | | RBST-221 |
| - RLC size | | 244 bits | | RBST-222 |
| - Number of TBs and TTI List | | 2 | | RBST-223 |
| - Transmission Time Interval | | Not Present | | RBST-224 |
| - Number of Transport blocks | | 0 | | RBST-225 |
| - Transmission Time Interval | | Not Present | | RBST-226 |
| - Number of Transport blocks | | 1 | | RBST-227 |
| - CHOICE Logical channel List | | ALL | | RBST-228 |
| - Semi-static Transport Format Information | | | | RBST-229 |
| - Transmission time interval | | 20 | | RBST-230 |
| - Type of channel coding | | Convolutional | | RBST-231 |
| - Coding Rate | | 1/3 | | RBST-232 |
| - Rate matching attribute | | 256 | | RBST-233 |
| - CRC size | | 16 | | RBST-234 |
| Added or Reconfigured TrCH information list | A3, A4, A5, A6, A7, A8, A9 | 1 | | RBST-235 |
| - Added or Reconfigured UL TrCH information | | | | RBST-236 |
| - Uplink transport channel type | | DCH | | RBST-237 |
| - UL Transport channel identity | | 1 | | RBST-238 |
| - TFS | | | | RBST-239 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBST-240 |
| - Dynamic Transport Format Information | | | | RBST-241 |
| - RLC size | | 240 bits | | RBST-242 |
| - Number of TBs and TTI List | | 2 | | RBST-243 |
| - Transmission Time Interval | | Not Present | | RBST-244 |
| - Number of Transport blocks | | 0 | | RBST-245 |
| - Transmission Time Interval | | Not Present | | RBST-246 |
| - Number of Transport blocks | | 1 | | RBST-247 |
| - CHOICE Logical channel List | | ALL | | RBST-248 |
| - Semi-static Transport Format Information | | | | RBST-249 |
| - Transmission time interval | | 20 | | RBST-250 |
| - Type of channel coding | | Convolutional | | RBST-251 |
| - Coding Rate | | 1/3 | | RBST-252 |
| - Rate matching attribute | | 256 | | RBST-253 |
| - CRC size | | 16 | | RBST-254 |
| CHOICE mode | A1, A3, A4, A5, A6, A7, A8 | Not Present | | RBST-255 |
| DL Transport channel information common for all transport channel | | | | RBST-256 |
| - SCCPCH TFCS | | Not Present | | RBST-257 |
| - CHOICE mode | | FDD | | RBST-258 |
| - CHOICE DL parameters | | Same as UL | | RBST-259 |
| Deleted DL TrCH information list | | Not Present | | RBST-260 |
| CHOICE mode | A9 | Not Present | | RBST-261 |
| DL Transport channel information common for all transport channel | | | | RBST-262 |
| - SCCPCH TFCS | | Not Present | | RBST-263 |
| - CHOICE mode | | FDD | | RBST-264 |
| - CHOICE DL parameters | | DL DCH TFCS | | RBST-265 |
| - DL DCH TFCS | | | | RBST-266 |
| - CHOICE TFCS signalling | | Normal | | RBST-267 |
| - TFCS Field 1 information | | | | RBST-268 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBST-269 |
| - TFCS complete reconfigure information | | | | RBST-270 |
| - CHOICE CTFC Size | | 4 bit CTFC | | RBST-271 |
| - CTFC information | | 6 TFCS | | RBST-272 |
| - 4bit CTFC | | 0 | | RBST-273 |
| - Power offset Information | | | | RBST-274 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-275 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|------------------------------|---------|----------|
| - Reference TFC ID | | 0 | | RBST-276 |
| - CHOICE mode | | FDD | | RBST-277 |
| - Power offset Pp-m | | Not Present | | RBST-278 |
| - 4bit CTFC | | 3 | | RBST-279 |
| - Power offset Information | | | | RBST-280 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-281 |
| - Reference TFC ID | | 0 | | RBST-282 |
| - CHOICE mode | | FDD | | RBST-283 |
| - Power offset Pp-m | | Not Present | | RBST-284 |
| - 4bit CTFC | | 1 | | RBST-285 |
| - Power offset Information | | | | RBST-286 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-287 |
| - Reference TFC ID | | 0 | | RBST-288 |
| - CHOICE mode | | FDD | | RBST-289 |
| - Power offset Pp-m | | Not Present | | RBST-290 |
| - 4bit CTFC | | 4 | | RBST-291 |
| - Power offset Information | | | | RBST-292 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-293 |
| - Reference TFC ID | | 0 | | RBST-294 |
| - CHOICE mode | | FDD | | RBST-295 |
| - Power offset Pp-m | | Not Present | | RBST-296 |
| - 4bit CTFC | | 2 | | RBST-297 |
| - Power offset Information | | | | RBST-298 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBST-299 |
| - Reference TFC ID | | 0 | | RBST-300 |
| - CHOICE mode | | FDD | | RBST-301 |
| - Power offset Pp-m | | Not Present | | RBST-302 |
| - 4bit CTFC | | 5 | | RBST-303 |
| - Power offset Information | | | | RBST-304 |
| - CHOICE Gain Factors | | Signalled Gain Factors | | RBST-305 |
| - CHOICE mode | | FDD | | RBST-306 |
| - Gain factor β_c | | 8 | | RBST-307 |
| - Gain factor β_d | | 15 | | RBST-308 |
| - Reference TFC ID | | 0 | | RBST-309 |
| - CHOICE mode | | FDD | | RBST-310 |
| - Power offset Pp-m | | Not Present | | RBST-311 |
| Deleted DL TrCH information list | | Not Present | | RBST-312 |
| Added or Reconfigured TrCH information list | A1 | 1 | | RBST-313 |
| - Added or Reconfigured DL TrCH information | | | | RBST-314 |
| - Downlink transport channel type | | DCH | | RBST-315 |
| - DL Transport channel identity | | 6 | | RBST-316 |
| - CHOICE DL parameters | | Same as UL | | RBST-317 |
| - Uplink transport channel type | | DCH | | RBST-318 |
| - UL TrCH identity | | 1 | | RBST-319 |
| - DCH quality target | | | | RBST-320 |
| - BLER Quality value | | -20 (-2.0) | | RBST-321 |
| Added or Reconfigured TrCH information list | A3, A6 | 1 | | RBST-322 |
| - Added or Reconfigured DL TrCH information | | | | RBST-323 |
| - Downlink transport channel type | | DCH | | RBST-324 |
| - DL Transport channel identity | | 6 | | RBST-325 |
| - CHOICE DL parameters | | Explicit | | RBST-326 |
| - TFS | | | | RBST-327 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBST-328 |
| - Dynamic transport format information | | | | RBST-329 |
| - RLC Size | | 1280 bits | | RBST-330 |
| - Number of TBs and TTI List | | 2 | | RBST-331 |
| - Transmission Time Interval | | Not Present | | RBST-332 |
| - Number of Transport blocks | | 0 | | RBST-333 |
| - Transmission Time Interval | | Not Present | | RBST-334 |
| - Number of Transport blocks | | 1 | | RBST-335 |
| - CHOICE Logical channel list | | ALL | | RBST-336 |
| - Semi-static Transport Format | | | | RBST-337 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|--|
| information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | 20 Turbo 256 16 -20 (-2.0) | | RBST-338 RBST-339 RBST-340 RBST-341 RBST-342 RBST-343 |
| Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | A4, A7 | 1 DCH 6 Explicit Dedicated transport channels 2880 bits 2 Not Present 0 Not Present 1 ALL 20 Turbo 256 16 -20 (-2.0) | | RBST-344 RBST-345 RBST-346 RBST-347 RBST-348 RBST-349 RBST-350 RBST-351 RBST-352 RBST-353 RBST-354 RBST-355 RBST-356 RBST-357 RBST-358 RBST-359 RBST-360 RBST-361 RBST-362 RBST-363 RBST-364 RBST-365 |
| Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | A5, A8 | 1 DCH 6 Explicit Dedicated transport channels 3840 bits 2 Not Present 0 Not Present 1 ALL 10 Turbo 256 16 -20 (-2.0) | | RBST-366 RBST-367 RBST-368 RBST-369 RBST-370 RBST-371 RBST-372 RBST-373 RBST-374 RBST-375 RBST-376 RBST-377 RBST-378 RBST-379 RBST-380 RBST-381 RBST-382 RBST-383 RBST-384 RBST-385 RBST-386 RBST-387 |
| Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS | A9 | 1 DCH 6 Explicit | | RBST-388 RBST-389 RBST-390 RBST-391 RBST-392 RBST-393 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------|---|--|--|
| <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value | | Dedicated transport channels 336 bits 3 Not Present 0 Not Present 1 Not Present 4 ALL 20 Turbo 143 16 -20 (-2.0) | | RBST-394 RBST-395 RBST-396 RBST-397 RBST-398 RBST-399 RBST-400 RBST-401 RBST-402 RBST-403 RBST-404 RBST-405 RBST-406 RBST-407 RBST-408 RBST-409 RBST-410 RBST-411 |
| Frequency info Multi-frequency Info DTX-DRX timing information DRX Information HS-SCCH less Information MIMO parameters Maximum allowed UL TX power CHOICE channel requirement Uplink DPCH info <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - CHOICE mode - Scrambling code type - Scrambling code number - Number of DPDCH | A1, A3, A4, A5, A6, A7, A8, A9 | Not Present Not Present Not Present Not Present Not Present 33dBm Uplink DPCH info FDD -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active 1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present FDD Long 0 (0 to 16777215) 1 | Rel-7 Rel-7 Rel-7 Rel-7 Rel-7 Rel-5 and earlier Rel-6 Rel-5 Rel-5 Rel-5 | RBST-412 RBST-413 RBST-414 RBST-415 RBST-416 RBST-417 RBST-418 RBST-419 RBST-420 RBST-421 RBST-422 RBST-423 RBST-424 RBST-425 RBST-426 RBST-427 RBST-428 RBST-429 RBST-430 RBST-431 RBST-432 RBST-433 RBST-434 |
| <ul style="list-style-type: none"> - spreading factor | A1, A3, A4, A5, A6, A7, A8, A9 | 64 | | RBST-435 |
| <ul style="list-style-type: none"> - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE Mode <ul style="list-style-type: none"> - Downlink PDSCH information E-DCH Info Downlink HS-PDSCH Information Downlink information common for all radio links | A1, A3, A4, A5, A6, A7, A8, A9 | TRUE Not Present(0) 1 FDD Not Present Not Present Not Present | R99 and Rel-4 only R99 and Rel-4 only Rel-6 Rel-5 | RBST-436 RBST-437 RBST-438 RBST-439 RBST-440 RBST-441 RBST-442 RBST-443 |

| Information Element | Condition | Value/remark | Version | Index |
|--|--------------------------------|---|-------------------------|----------|
| - Downlink DPCH info common for all RL | | | | RBST-444 |
| - Timing indicator | | Maintain | | RBST-445 |
| - CFN-targetSFN frame offset | | Not Present | | RBST-446 |
| - Downlink DPCH power control information | | | | RBST-447 |
| - CHOICE mode | | FDD | | RBST-448 |
| - DPC mode | | 0 (single) | | RBST-449 |
| - CHOICE mode | | FDD | | RBST-450 |
| - Power offset $P_{\text{Pilot-DPCH}}$ | | 0 | | RBST-451 |
| - DL rate matching restriction information | | Not Present | | RBST-452 |
| - Spreading factor | A1 | 128 | | RBST-453 |
| - Fixed or Flexible Position | | Fixed | | RBST-454 |
| - TFCI existence | | TRUE | | RBST-455 |
| - CHOICE SF | | 128 | | RBST-456 |
| - Number of bits for Pilot bits | | 8 | | RBST-457 |
| - Spreading factor | A3, A6, A9 | 32 | | RBST-458 |
| - Fixed or Flexible Position | | Fixed | | RBST-459 |
| - TFCI existence | | TRUE | | RBST-460 |
| - CHOICE SF | | 32 | | RBST-461 |
| - Spreading factor | A4, A7 | 16 | | RBST-462 |
| - Fixed or Flexible Position | | Fixed | | RBST-463 |
| - TFCI existence | | TRUE | | RBST-464 |
| - CHOICE SF | | 16 | | RBST-465 |
| - Spreading factor | A5, A8 | 8 | | RBST-466 |
| - Fixed or Flexible Position | | Fixed | | RBST-467 |
| - TFCI existence | | TRUE | | RBST-468 |
| - CHOICE SF | | 8 | | RBST-469 |
| - CHOICE mode | A1, A3, A4, A5, A6, A7, A8, A9 | FDD | | RBST-470 |
| - DPCH compressed mode info | | Not Present | | RBST-471 |
| - TX Diversity mode | | None | | RBST-472 |
| - SSDT information | | Not Present | R99 and Rel-4 only | RBST-473 |
| - Default DPCH Offset Value | | Not Present | | RBST-474 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBST-475 |
| Downlink information per radio link list | | | | RBST-476 |
| - Downlink information for each radio link | | | | RBST-477 |
| - CHOICE mode | | FDD | | RBST-478 |
| - Primary CPICH info | | | | RBST-479 |
| - Primary scrambling code | | Reference to clause 6.1 "Default settings (FDD)" | | RBST-480 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBST-481 |
| - PDSCH code mapping | | Not Present | only R99 and Rel-4 only | RBST-482 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-5 | RBST-483 |
| - Downlink DPCH info for each RL | | | | RBST-484 |
| - CHOICE mode | | FDD | | RBST-485 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBST-486 |
| - DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBST-487 |
| - Secondary CPICH info | | Not Present | | RBST-488 |
| - DL channelisation code | | | | RBST-489 |
| - Secondary scrambling code | | Not Present | | RBST-490 |
| - Spreading factor | A1 | 128 | | RBST-491 |
| - Code number | | 96 | | RBST-492 |
| - Spreading factor | A3, A6, A9 | 32 | | RBST-493 |
| - Code number | | 24 | | RBST-494 |
| - Spreading factor | A4, A7 | 16 | | RBST-495 |

| Information Element | Condition | Value/remark | Version | Index |
|---|--------------------------------------|--------------|--------------------------|----------|
| - Code number | | 12 | | RBST-496 |
| - Spreading factor | A5, A8 | 8 | | RBST-497 |
| - Code number | | 6 | | RBST-498 |
| - Scrambling code change | A1, A3, A4, A5, A6, A7, A8, A9 | No change | | RBST-499 |
| - TPC combination index | | 0 | R99 and Rel-4 only | RBST-500 |
| - SSTD Cell Identity | | Not Present | | RBST-501 |
| - Closed loop timing adjustment mode | | Not Present | | RBST-502 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBST-503 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBST-504 |

| Condition | Explanation | Version |
|-----------|--|---------|
| A1 | This IE is needed for "UE supports CS RAB for Test Loop Mode1 RMC 12.2/12.2 (TM)" | |
| A2 | Not used | |
| A3 | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/64 (AM)" | |
| A4 | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/144 (AM)" | |
| A5 | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/384 (AM)" | |
| A6 | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/64 (AM)" | |
| A7 | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/144 (AM)" | |
| A8 | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/384 (AM)" | |
| A9 | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/64(Channel2) (AM)" | |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)

| Information Element | Value/remark | Version | Index |
|--------------------------------------|--|-----------------------|----------|
| Message Type | | | RBSP-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSP-002 |
| Integrity check info | | | RBSP-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSP-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSP-005 |
| Integrity protection mode info | Not Present | | RBSP-006 |
| Ciphering mode info | Not Present | | RBSP-007 |
| Activation time | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ | | RBSP-008 |
| New U-RNTI | Not Present | | RBSP-009 |
| New C-RNTI | Not Present | | RBSP-010 |
| New DSCH-RNTI | Not Present | R99 and Rel-4 only | RBSP-011 |
| New H-RNTI | Not Present | Rel-5 | RBSP-012 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSP-013 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSP-014 |
| RRC State indicator | CELL_DCH | | RBSP-015 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSP-016 |
| CN information info | Not Present | | RBSP-017 |
| URA identity | Not Present | | RBSP-018 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSP-019 |
| - Signalling RB information to setup | Not Present | | RBSP-020 |
| - RAB information for setup list | | | RBSP-021 |
| - RAB information for setup | | | RBSP-022 |
| - RAB info | (AM DTCH for PS domain) | | RBSP-023 |
| - RAB identity | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSP-024 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - CN domain identity | PS domain | | RBSP-025 |
| - NAS Synchronization Indicator | Not Present | | RBSP-026 |
| - Re-establishment timer | useT315 | | RBSP-027 |
| - RB information to setup | | | RBSP-028 |
| - RB identity | 20 | | RBSP-029 |
| - PDCP info | | | RBSP-030 |
| - Support for lossless SRNS relocation | FALSE | | RBSP-031 |
| - Max PDCP SN window size | Not present | | RBSP-032 |
| - PDCP PDU header | Absent | | RBSP-033 |
| - Header compression information | Not present | | RBSP-034 |
| - CHOICE RLC info type | RLC info | | RBSP-035 |
| - CHOICE Uplink RLC mode | AM RLC | | RBSP-036 |
| - Transmission RLC discard | | | RBSP-037 |
| - CHOICE SDU discard mode | No Discard | | RBSP-038 |
| - MAX_DAT | 15 | | RBSP-039 |
| - Transmission window size | 128 | | RBSP-040 |
| - Timer_RST | 500 | | RBSP-041 |
| - Max_RST | 4 | | RBSP-042 |
| - Polling info | | | RBSP-043 |
| - Timer_poll_prohibit | 200 | | RBSP-044 |
| - Timer_poll | 200 | | RBSP-045 |
| - Poll_PDU | Not Present | | RBSP-046 |
| - Poll_SDU | 1 | | RBSP-047 |
| - Last transmission PDU poll | TRUE | | RBSP-048 |
| - Last retransmission PDU poll | TRUE | | RBSP-049 |
| - Poll_Windows | 99 | | RBSP-050 |
| - Timer_poll_periodic | Not Present | | RBSP-051 |
| - CHOICE Downlink RLC mode | AM RLC | | RBSP-052 |
| - DL RLC PDU size | Reference to clause 6 Parameter Set | Rel-5 | RBSP-053 |
| - In-sequence delivery | TRUE | | RBSP-054 |
| - Receiving window size | 128 | | RBSP-055 |
| - Downlink RLC status info | | | RBSP-056 |
| - Timer_status_prohibit | 200 | | RBSP-057 |
| - Timer_EPC | Not Present | | RBSP-058 |
| - Missing PDU indicator | TRUE | | RBSP-059 |
| - Timer_STATUS_periodic | Not Present | | RBSP-060 |
| - RB mapping info | | | RBSP-061 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RBSP-062 |
| - RLC logical channel mapping indicator | Not Present | | RBSP-063 |
| - Number of uplink RLC logical channels | 1 | | RBSP-064 |
| - Uplink transport channel type | DCH | | RBSP-065 |
| - UL Transport channel identity | 1 | | RBSP-066 |
| - Logical channel identity | Not Present | | RBSP-067 |
| - CHOICE RLC size list | Configured | | RBSP-068 |
| - MAC logical channel priority | 8 | | RBSP-069 |
| - Downlink RLC logical channel info | | | RBSP-070 |
| - Number of downlink RLC logical channels | 1 | | RBSP-071 |
| - Downlink transport channel type | DCH | | RBSP-072 |
| - DL DCH Transport channel identity | 6 | | RBSP-073 |
| - DL DSCH Transport channel identity | Not Present | | RBSP-074 |
| - Logical channel identity | Not Present | | RBSP-075 |
| - RLC logical channel mapping indicator | Not Present | | RBSP-076 |
| - Number of uplink RLC logical channels | 1 | | RBSP-077 |
| - Uplink transport channel type | RACH | | RBSP-078 |
| - UL Transport channel identity | Not Present | | RBSP-079 |
| - Logical channel identity | 7 | | RBSP-080 |
| - CHOICE RLC size list | Explicit list | | RBSP-081 |
| - RLC size index | Reference to clause 6 Parameter Set | | RBSP-082 |
| - MAC logical channel priority | 8 | | RBSP-083 |
| - Downlink RLC logical channel info | | | RBSP-084 |
| - Number of downlink RLC logical channels | 1 | | RBSP-085 |
| - Downlink transport channel type | FACH | | RBSP-086 |
| - DL DCH Transport channel identity | Not Present | | RBSP-087 |
| - DL DSCH Transport channel identity | Not Present | | RBSP-088 |
| - Logical channel identity | 7 | | RBSP-089 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| RB information to reconfigure list | Not Present | Rel-6 | RBSP-090 |
| RB information to be affected list | Not Present | | RBSP-091 |
| Downlink counter synchronization info | Not Present | | RBSP-092 |
| UL Transport channel information for all transport channels | | | RBSP-093 |
| - PRACH TFCS | Not Present | | RBSP-094 |
| - CHOICE mode | FDD | | RBSP-095 |
| - TFC subset | Not Present | | RBSP-096 |
| - UL DCH TFCS | | | RBSP-097 |
| - CHOICE TFCI signalling | Normal | | RBSP-098 |
| - TFCI Field 1 information | | | RBSP-099 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSP-100 |
| - TFCS complete reconfigure information | | | RBSP-101 |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | RBSP-102 |
| - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set | | RBSP-103 |
| - CTFC | Reference to clause 6.10.2.4 Parameter Set | | RBSP-104 |
| - Power offset information | | | RBSP-105 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBSP-106 |
| - Gain factor β_c | 11 (below 64 kbps) | | RBSP-107 |
| - Gain factor β_d | 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSP-108 |
| - Reference TFC ID | 15 | | RBSP-109 |
| - CHOICE mode | (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSP-110 |
| - Power offset P _{p-m} | 0 | | RBSP-111 |
| Deleted UL TrCH information list | FDD | | RBSP-112 |
| Added or Reconfigured UL TrCH information list | Not Present | | RBSP-113 |
| Added or Reconfigured UL TrCH information | Not Present | | RBSP-114 |
| - Uplink transport channel type | 1 | | RBSP-115 |
| - UL Transport channel identity | 1 DCH added, 1 DCH reconfigured | | RBSP-116 |
| - TFS | DCH | | RBSP-117 |
| - CHOICE Transport channel type | 1 | | RBSP-118 |
| - Dynamic Transport format information | Dedicated transport channels | | RBSP-119 |
| - RLC Size | | | RBSP-120 |
| - Number of TBs and TTI List | Reference to clause 6.10 Parameter Set | | RBSP-121 |
| - Transmission Time Interval | (This IE is repeated for TFI number.) | | RBSP-122 |
| - Number of Transport blocks | Not Present | | RBSP-123 |
| - CHOICE Logical channel list | Reference to clause 6.10 Parameter Set | | RBSP-124 |
| - Semi-static Transport Format information | All | | RBSP-125 |
| - Transmission time interval | | | RBSP-126 |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | | RBSP-127 |
| - Coding Rate | Reference to clause 6.10 Parameter Set | | RBSP-128 |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | | RBSP-129 |
| - CRC size | Reference to clause 6.10 Parameter Set | | RBSP-130 |
| - Uplink transport channel type | DCH | | RBSP-131 |
| - UL Transport channel identity | 5 | | RBSP-132 |
| - TFS | | | RBSP-133 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSP-134 |
| - Dynamic Transport format information | | | RBSP-135 |
| - RLC Size | Reference to clause 6.10 Parameter Set | | RBSP-136 |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) | | RBSP-137 |
| - Transmission Time Interval | Not Present | | RBSP-138 |
| - Number of Transport blocks | Reference to clause 6.10 Parameter Set | | RBSP-139 |
| - CHOICE Logical channel list | All | | RBSP-140 |
| - Semi-static Transport Format information | | | RBSP-141 |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | | RBSP-142 |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | | RBSP-143 |
| - Coding Rate | Reference to clause 6.10 Parameter Set | | RBSP-144 |

| Information Element | Value/remark | Version | Index |
|---|--|-------------------|----------|
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | | RBSP-145 |
| - CRC size | Reference to clause 6.10 Parameter Set | | RBSP-146 |
| CHOICE mode | Not Present | | RBSP-147 |
| DL Transport channel information common for all transport channel | | | RBSP-148 |
| - SCCPCH TFCS | Not Present | | RBSP-149 |
| - CHOICE mode | FDD | | RBSP-150 |
| - CHOICE DL parameters | Explicit | | RBSP-151 |
| - DL DCH TFCS | | | RBSP-152 |
| - CHOICE TFCI Signalling | Normal | | RBSP-153 |
| - TFCI Field 1 Information | | | RBSP-154 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSP-155 |
| - TFCS complete reconfigure | | | RBSP-156 |
| - CHOICE CTFC Size | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. | | RBSP-157 |
| - CTFC information | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 | | RBSP-158 |
| - CTFC | Reference to clause 6.10.2.4 Parameter Set | | RBSP-159 |
| - Power offset information | Not Present | | RBSP-160 |
| Added or Reconfigured DL TrCH information list | 1 | | RBSP-161 |
| Added or Reconfigured DL TrCH information | 2 TrCHs(DCH for DCCH and DCH for DTCH) | | RBSP-162 |
| - Downlink transport channel type | DCH | | RBSP-163 |
| - DL Transport channel identity | 10 | | RBSP-164 |
| - CHOICE DL parameters | Same as UL | | RBSP-165 |
| - Uplink transport channel type | DCH | | RBSP-166 |
| - UL TrCH identity | 5 | | RBSP-167 |
| - DCH quality target | | | RBSP-168 |
| - BLER Quality value | -20 (-2.0) | | RBSP-169 |
| - Downlink transport channel type | DCH | | RBSP-170 |
| - DL Transport channel identity | 6 | | RBSP-171 |
| - CHOICE DL parameters | Explicit | | RBSP-172 |
| - TFS | | | RBSP-173 |
| - CHOICE Transport channel type | Dedicated transport channel | | RBSP-174 |
| - Dynamic transport format information | | | RBSP-175 |
| - RLC Size | Reference to clause 6.10 Parameter Set | | RBSP-176 |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) | | RBSP-177 |
| - Dynamic transport format information | | | RBSP-178 |
| - Transmission Time Interval | Not Present | | RBSP-179 |
| - Number of Transport blocks | Reference to clause 6.10 Parameter Set | | RBSP-180 |
| - CHOICE Logical channel list | All | | RBSP-181 |
| - Semi-static Transport Format information | | | RBSP-182 |
| - Transmission time interval | Reference to clause 6.10 Parameter Set | | RBSP-183 |
| - Type of channel coding | Reference to clause 6.10 Parameter Set | | RBSP-184 |
| - Coding Rate | Reference to clause 6.10 Parameter Set | | RBSP-185 |
| - Rate matching attribute | Reference to clause 6.10 Parameter Set | | RBSP-186 |
| - CRC size | Reference to clause 6.10 Parameter Set | | RBSP-187 |
| - DCH quality target | | | RBSP-188 |
| - BLER Quality value | -20 (-2.0) | | RBSP-189 |
| Frequency info | Not Present | | RBSP-190 |
| Multi-frequency Info | Not present | Rel-7 | RBSP-191 |
| DTX-DRX timing information | Not present | Rel-7 | RBSP-192 |
| DRX Information | Not present | Rel-7 | RBSP-193 |
| HS-SCCH less Information | Not present | Rel-7 | RBSP-194 |
| MIMO parameters | Not present | Rel-7 | RBSP-195 |
| Maximum allowed UL TX power | 33dBm | | RBSP-196 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSP-197 |
| Uplink DPCH info | | Rel-6 | RBSP-198 |
| - Uplink DPCH power control info | | | RBSP-199 |
| - CHOICE mode | FDD | | RBSP-200 |
| - DPCCH power offset | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | RBSP-201 |
| - PC Preamble | 1 frame | | RBSP-202 |

| Information Element | Value/remark | Version | Index |
|---|---|-----------------------|----------|
| - SRB delay | 7 frames | | RBSP-203 |
| - Power Control Algorithm | Algorithm1 | | RBSP-204 |
| - TPC step size | 0 (1dB) | | RBSP-205 |
| - Δ_{ACK} | Not Present | Rel-5 | RBSP-206 |
| - Δ_{NACK} | Not Present | Rel-5 | RBSP-207 |
| - Ack-Nack repetition factor | Not Present | Rel-5 | RBSP-208 |
| - CHOICE mode | FDD | | RBSP-209 |
| - Scrambling code type | Long | | RBSP-210 |
| - Scrambling code number | 0 (0 to 16777215) | | RBSP-211 |
| - Number of DPDCH | 1 | | RBSP-212 |
| - spreading factor | 64 | | RBSP-213 |
| - TFCI existence | TRUE | | RBSP-214 |
| - Number of FBI bit | Not Present(0) | | RBSP-215 |
| - Puncturing Limit | 1 | | RBSP-216 |
| CHOICE Mode | FDD | R99 and Rel-4 only | RBSP-217 |
| E-DCH Info | Not Present | Rel-6 | RBSP-218 |
| - Downlink PDSCH information | Not Present | R99 and Rel-4 only | RBSP-219 |
| Downlink HS-PDSCH Information | Not Present | Rel-5 | RBSP-220 |
| Downlink information common for all radio links | | | RBSP-221 |
| - Downlink DPCH info common for all RL | | | RBSP-222 |
| - Timing indicator | Maintain | | RBSP-223 |
| - CFN-targetSFN frame offset | Not Present | | RBSP-224 |
| - Downlink DPCH power control information | | | RBSP-225 |
| - CHOICE mode | FDD | | RBSP-226 |
| - DPC mode | 0 (single) | | RBSP-227 |
| - CHOICE mode | FDD | | RBSP-228 |
| - Power offset $P_{Pilot-DPCH}$ | 0 | | RBSP-229 |
| - DL rate matching restriction information | Not Present | | RBSP-230 |
| - Spreading factor | Reference to clause 6.10 Parameter Set | | RBSP-231 |
| - Fixed or Flexible Position | Reference to clause 6.10 Parameter Set | | RBSP-232 |
| - TFCI existence | Reference to clause 6.10 Parameter Set | | RBSP-233 |
| - CHOICE SF | Reference to clause 6.10 Parameter Set | | RBSP-234 |
| - CHOICE mode | FDD | | RBSP-235 |
| - DPCH compressed mode info | Not Present | | RBSP-236 |
| - TX Diversity mode | None | | RBSP-237 |
| - SSDT information | Not Present | R99 and Rel-4 only | RBSP-238 |
| - Default DPCH Offset Value | Not Present | | RBSP-239 |
| - MAC-hs reset indicator | Not Present | Rel-5 | RBSP-240 |
| - Post-verification period | Not Present | Rel-6 | RBSP-241 |
| Downlink information per radio link list | | | RBSP-242 |
| - Downlink information for each radio link | | | RBSP-243 |
| - CHOICE mode | FDD | | RBSP-244 |
| - Primary CPICH info | | | RBSP-245 |
| - Primary scrambling code | Reference to clause 6.1 "Default settings (FDD)" | | RBSP-246 |
| - PDSCH with SHO DCH info | Not Present | R99 and Rel-4 only | RBSP-247 |
| - PDSCH code mapping | Not Present | R99 and Rel-4 only | RBSP-248 |
| - Downlink DPCH info for each RL | | | RBSP-249 |
| - CHOICE mode | FDD | | RBSP-250 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSP-251 |
| - DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSP-252 |
| - Secondary CPICH info | Not Present | | RBSP-253 |
| - DL channelisation code | | | RBSP-254 |
| - Secondary scrambling code | Not present | | RBSP-255 |
| - Spreading factor | Reference to clause 6.10 Parameter Set | | RBSP-256 |
| - Code number | Depends upon radio bearer used. | | RBSP-257 |
| - Scrambling code change | No change | | RBSP-258 |
| - TPC combination index | 0 | | RBSP-259 |
| - SSDT Cell Identity | Not Present | R99 and | RBSP-260 |

| Information Element | Value/remark | Version | Index |
|---|----------------------------|-------------------------------------|----------------------|
| - Closed loop timing adjustment mode - SCCPCH information for FACH | Not Present Not Present | Rel-4 only R99 and Rel-4 only | RBSP-261 RBSP-262 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSP-263 |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports CS RAB for Test Loop Mode 2)

| Information Element | Value/remark | Version | Index |
|--|--|-----------------------|----------|
| Message Type | | | RBSC-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSC-002 |
| Integrity check info | | | RBSC-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSC-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSC-005 |
| Integrity protection mode info | Not Present | | RBSC-006 |
| Ciphering mode info | Not Present | | RBSC-007 |
| Activation time | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBSC-008 |
| New U-RNTI | Not Present | | RBSC-009 |
| New C-RNTI | Not Present | | RBSC-010 |
| New DSCH-RNTI | Not Present | R99 and Rel-4 only | RBSC-011 |
| New H-RNTI | Not Present | Rel-5 | RBSC-012 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSC-013 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSC-014 |
| RRC State indicator | CELL_DCH | | RBSC-015 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSC-016 |
| CN information info | Not Present | | RBSC-017 |
| URA identity | Not Present | | RBSC-018 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSC-019 |
| Signalling RB information to setup | Not Present | | RBSC-020 |
| RAB information for setup list | | | RBSC-021 |
| - RAB information for setup | | | RBSC-022 |
| - RAB info | | | RBSC-023 |
| - RAB identity | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSC-024 |
| - CN domain identity | CS domain | | RBSC-025 |
| - NAS Synchronization Indicator | Not Present | | RBSC-026 |
| - Re-establishment timer | UseT314 | | RBSC-027 |
| - RB information to setup list | | | RBSC-028 |
| - RB information to setup | | | RBSC-029 |
| - RB identity | 10 | | RBSC-030 |
| - PDCP info | Not Present | | RBSC-031 |
| - CHOICE RLC info type | RLC info | | RBSC-032 |
| - CHOICE Uplink RLC mode | TM RLC | | RBSC-033 |
| - Transmission RLC discard | Not Present | | RBSC-034 |
| - Segmentation indication | FALSE | | RBSC-035 |
| - CHOICE Downlink RLC mode | TM RLC | | RBSC-036 |
| - Segmentation indication | FALSE | | RBSC-037 |
| - RB mapping info | | | RBSC-038 |
| - Information for each multiplexing option | | | RBSC-039 |
| - RLC logical channel mapping indicator | Not Present | | RBSC-040 |
| - Number of uplink RLC logical channels | 1 | | RBSC-041 |
| - Uplink transport channel type | DCH | | RBSC-042 |
| - UL Transport channel identity | 1 | | RBSC-043 |
| - Logical channel identity | Not Present | | RBSC-044 |
| - CHOICE RLC size list | Configured | | RBSC-045 |
| - MAC logical channel priority | 7 | | RBSC-046 |
| - Downlink RLC logical channel info | | | RBSC-047 |
| - Number of downlink RLC logical | 1 | | RBSC-048 |

| Information Element | Value/remark | Version | Index |
|---|------------------------------|---------|----------|
| channels | | | |
| - Downlink transport channel type | DCH | | RBSC-049 |
| - DL DCH Transport channel identity | 6 | | RBSC-050 |
| - DL DSCH Transport channel identity | Not Present | | RBSC-051 |
| - Logical channel identity | Not Present | | RBSC-052 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSC-053 |
| RB information to be affected list | Not Present | | RBSC-054 |
| Downlink counter synchronization info | Not Present | | RBSC-055 |
| UL Transport channel information for all transport channels | | | RBSC-056 |
| - PRACH TFCS | Not Present | | RBSC-057 |
| - CHOICE mode | FDD | | RBSC-058 |
| - TFC subset | Not Present | | RBSC-059 |
| - UL DCH TFCS | | | RBSC-060 |
| - CHOICE TFCI signalling | Normal | | RBSC-061 |
| - TFCI Field 1 information | | | RBSC-062 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSC-063 |
| - TFCS complete reconfigure information | | | RBSC-064 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSC-065 |
| - CTFC information | 4 TFCS | | RBSC-066 |
| - 2bit CTFC | 0 | | RBSC-067 |
| - Power offset Information | | | RBSC-068 |
| - CHOICE Gain Factors | Computed Gain Factors | | RBSC-069 |
| - Reference TFC ID | 0 | | RBSC-070 |
| - CHOICE mode | FDD | | RBSC-071 |
| - Power offset P_{p-m} | Not Present | | RBSC-072 |
| - 2bit CTFC | 2 | | RBSC-073 |
| - Power offset Information | | | RBSC-074 |
| - CHOICE Gain Factors | Computed Gain Factors | | RBSC-075 |
| - Reference TFC ID | 0 | | RBSC-076 |
| - CHOICE mode | FDD | | RBSC-077 |
| - Power offset P_{p-m} | Not Present | | RBSC-078 |
| - 2bit CTFC | 1 | | RBSC-079 |
| - Power offset Information | | | RBSC-080 |
| - CHOICE Gain Factors | Computed Gain Factors | | RBSC-081 |
| - Reference TFC ID | 0 | | RBSC-082 |
| - CHOICE mode | FDD | | RBSC-083 |
| - Power offset P_{p-m} | Not Present | | RBSC-084 |
| - 2bit CTFC | 3 | | RBSC-085 |
| - Power offset Information | | | RBSC-086 |
| - CHOICE Gain Factors | Signalled Gain Factors | | RBSC-087 |
| - CHOICE mode | FDD | | RBSC-088 |
| - Gain factor β_c | 8 | | RBSC-089 |
| - Gain factor β_d | 15 | | RBSC-090 |
| - Reference TFC ID | 0 | | RBSC-091 |
| - CHOICE mode | FDD | | RBSC-092 |
| - Power offset P_{p-m} | Not Present | | RBSC-093 |
| Deleted UL TrCH information list | Not Present | | RBSC-094 |
| Added or Reconfigured UL TrCH information list | 1 | | RBSC-095 |
| - Added or Reconfigured UL TrCH information | | | RBSC-096 |
| - Uplink transport channel type | DCH | | RBSC-097 |
| - UL Transport channel identity | 1 | | RBSC-098 |
| - TFS | | | RBSC-099 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSC-100 |
| - Dynamic Transport Format Information | | | RBSC-101 |
| - RLC size | 260 bits | | RBSC-102 |
| - Number of TBs and TTI List | 2 | | RBSC-103 |
| - Transmission Time Interval | Not Present | | RBSC-104 |
| - Number of Transport blocks | 0 | | RBSC-105 |
| - Transmission Time Interval | Not Present | | RBSC-106 |
| - Number of Transport blocks | 1 | | RBSC-107 |
| - CHOICE Logical channel List | ALL | | RBSC-108 |
| - Semi-static Transport Format Information | | | RBSC-109 |
| - Transmission time interval | 20 | | RBSC-110 |
| - Type of channel coding | Convolutional | | RBSC-111 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------------|----------|
| - Coding Rate | 1/3 | | RBSC-112 |
| - Rate matching attribute | 256 | | RBSC-113 |
| - CRC size | 0 | | RBSC-114 |
| CHOICE mode | Not Present | | RBSC-115 |
| DL Transport channel information common for all transport channel | | | RBSC-116 |
| - SCCPCH TFCS | Not Present | | RBSC-117 |
| - CHOICE mode | FDD | | RBSC-118 |
| - CHOICE DL parameters | Same as UL | | RBSC-119 |
| Deleted DL TrCH information list | Not Present | | RBSC-120 |
| Added or Reconfigured DL TrCH information list | 1 | | RBSC-121 |
| - Added or Reconfigured DL TrCH information | | | RBSC-122 |
| - Downlink transport channel type | DCH | | RBSC-123 |
| - DL Transport channel identity | 6 | | RBSC-124 |
| - CHOICE DL parameters | | | RBSC-125 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSC-126 |
| - Dynamic Transport Format Information | | | RBSC-127 |
| - RLC size | 244 bits | | RBSC-128 |
| - Number of TBs and TTI List | 2 | | RBSC-129 |
| - Transmission Time Interval | Not Present | | RBSC-130 |
| - Number of Transport blocks | 0 | | RBSC-131 |
| - Transmission Time Interval | Not Present | | RBSC-132 |
| - Number of Transport blocks | 1 | | RBSC-133 |
| - CHOICE Logical channel List | ALL | | RBSC-134 |
| - Semi-static Transport Format Information | | | RBSC-135 |
| - Transmission time interval | 20 | | RBSC-136 |
| - Type of channel coding | Convolutional | | RBSC-137 |
| - Coding Rate | 1/3 | | RBSC-138 |
| - Rate matching attribute | 256 | | RBSC-139 |
| - CRC size | 16 | | RBSC-140 |
| - DCH quality target | | | RBSC-141 |
| - BLER Quality value | -20 (-2.0) | | RBSC-142 |
| Frequency info | Not Present | | RBSC-143 |
| Multi-frequency Info | Not present | Rel-7 | RBSC-144 |
| DTX-DRX timing information | Not present | Rel-7 | RBSC-145 |
| DRX Information | Not present | Rel-7 | RBSC-146 |
| HS-SCCH less Information | Not present | Rel-7 | RBSC-147 |
| MIMO parameters | Not present | Rel-7 | RBSC-148 |
| Maximum allowed UL TX power | 33dBm | | RBSC-149 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSC-150 |
| Uplink DPCH info | | Rel-6 | RBSC-151 |
| - Uplink DPCH power control info | | | RBSC-152 |
| - CHOICE mode | FDD | | RBSC-153 |
| - DPCH power offset | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | RBSC-154 |
| - PC Preamble | 1 frame | | RBSC-155 |
| - SRB delay | 7 frames | | RBSC-156 |
| - Power Control Algorithm | Algorithm1 | | RBSC-157 |
| - TPC step size | 0 (1dB) | | RBSC-158 |
| - Δ_{ACK} | Not Present | Rel-5 | RBSC-159 |
| - Δ_{NACK} | Not Present | Rel-5 | RBSC-160 |
| - Ack-Nack repetition factor | Not Present | Rel-5 | RBSC-161 |
| - CHOICE mode | FDD | | RBSC-162 |
| - Scrambling code type | Long | | RBSC-163 |
| - Scrambling code number | 0 (0 to 16777215) | | RBSC-164 |
| - Number of DPDCH | 1 | | RBSC-165 |
| - spreading factor | 64 | | RBSC-166 |
| - TFCI existence | TRUE | | RBSC-167 |
| - Number of FBI bit | Not Present(0) | | RBSC-168 |
| - Puncturing Limit | 1 | | RBSC-169 |
| CHOICE Mode | FDD | R99 and Rel-4 only | RBSC-170 |
| - Downlink PDSCH information | Not Present | R99 and Rel-4 only | RBSC-171 |
| E-DCH Info | Not Present | Rel-6 | RBSC-172 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------|
| Downlink HS-PDSCH Information | Not Present | Rel-5 | RBSC-173 |
| Downlink information common for all radio links | | | RBSC-174 |
| - Downlink DPCH info common for all RL | | | RBSC-175 |
| - Timing indicator | Maintain | | RBSC-176 |
| - CFN-targetSFN frame offset | Not Present | | RBSC-177 |
| - Downlink DPCH power control information | | | RBSC-178 |
| - CHOICE mode | FDD | | RBSC-179 |
| - DPC mode | 0 (single) | | RBSC-180 |
| - CHOICE mode | FDD | | RBSC-181 |
| - Power offset $P_{Pilot-DPCH}$ | 0 | | RBSC-182 |
| - DL rate matching restriction information | Not Present | | RBSC-183 |
| - Spreading factor | 128 | | RBSC-184 |
| - Fixed or Flexible Position | Fixed | | RBSC-185 |
| - TFCI existence | TRUE | | RBSC-186 |
| - CHOICE SF | 128 | | RBSC-187 |
| - Number of bits for Pilot bits | 8 | | RBSC-188 |
| - CHOICE mode | FDD | | RBSC-189 |
| - DPCH compressed mode info | Not Present | | RBSC-190 |
| - TX Diversity mode | None | | RBSC-191 |
| - SSDT information | Not Present | R99 and Rel-4 only | RBSC-192 |
| - Default DPCH Offset Value | Not Present | | RBSC-193 |
| - MAC-hs reset indicator | Not Present | Rel-5 | RBSC-194 |
| - Post-verification period | Not Present | Rel-6 | RBSC-195 |
| Downlink information for per radio link list | | | RBSC-196 |
| - Downlink information for each radio link | | | RBSC-197 |
| - CHOICE mode | FDD | | RBSC-198 |
| - Primary CPICH info | | | RBSC-199 |
| - Primary scrambling code | Reference to clause 6.1 "Default settings (FDD)" | | RBSC-200 |
| - PDSCH with SHO DCH info | Not Present | R99 and Rel-4 only | RBSC-201 |
| - PDSCH code mapping | Not Present | R99 and Rel-4 only | RBSC-202 |
| - Downlink DPCH info for each RL | | | RBSC-203 |
| - CHOICE mode | FDD | | RBSC-204 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSC-205 |
| - DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSC-206 |
| - Secondary CPICH info | Not Present | | RBSC-207 |
| - DL channelisation code | | | RBSC-208 |
| - Secondary scrambling code | Not Present | | RBSC-209 |
| - Spreading factor | 128 | | RBSC-210 |
| - Code number | 96 | | RBSC-211 |
| - Scrambling code change | No change | | RBSC-212 |
| - TPC combination index | 0 | | RBSC-213 |
| - SSDT Cell Identity | Not Present | R99 and Rel-4 only | RBSC-214 |
| - Closed loop timing adjustment mode | Not Present | | RBSC-215 |
| - SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RBSC-216 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSC-217 |

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|-----------|---|---------|----------|
| Message Type | A1,A2 | | | RBS2-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS2-002 |
| Integrity check info | | | | RBS2-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS2-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS2-005 |
| Integrity protection mode info | | Not Present | | RBS2-006 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|--------------------------|----------|
| Ciphering mode info | | Not Present | | RBS2-007 |
| Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBS2-008 |
| New U-RNTI | | Not Present | | RBS2-009 |
| New C-RNTI | | Not Present | | RBS2-010 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBS2-011 |
| New H-RNTI | | Not Present | Rel-5 | RBS2-012 |
| New Primary E-RNTI | | Not Present | Rel-6 | RBS2-013 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBS2-014 |
| RRC State indicator | | CELL_DCH | | RBS2-015 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBS2-016 |
| CN information info | | Not Present | | RBS2-017 |
| URA identity | | Not Present | | RBS2-018 |
| CHOICE specification mode | | Complete specification | Rel-6 | RBS2-019 |
| Signalling RB information to setup | | Not Present | | RBS2-020 |
| RAB information for setup list | | | | RBS2-021 |
| - RAB information for setup | | | | RBS2-022 |
| - RAB info | | | | RBS2-023 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS2-024 |
| - CN domain identity | | CS domain | | RBS2-025 |
| - NAS Synchronization Indicator | | Not Present | | RBS2-026 |
| - Re-establishment timer | | UseT314 | | RBS2-027 |
| - RB information to setup list | | | | RBS2-028 |
| - RB information to setup | | | | RBS2-029 |
| - RB identity | | 10 | | RBS2-030 |
| - PDCP info | | Not Present | | RBS2-031 |
| - CHOICE RLC info type | | RLC info | | RBS2-032 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS2-033 |
| - Transmission RLC discard | | Not Present | | RBS2-034 |
| - Segmentation indication | | FALSE | | RBS2-035 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS2-036 |
| - Segmentation indication | | FALSE | | RBS2-037 |
| - RB mapping info | | | | RBS2-038 |
| - Information for each multiplexing option | | | | RBS2-039 |
| - RLC logical channel mapping indicator | | Not Present | | RBS2-040 |
| - Number of uplink RLC logical channels | | 1 | | RBS2-041 |
| - Uplink transport channel type | | DCH | | RBS2-042 |
| - UL Transport channel identity | | 1 | | RBS2-043 |
| - Logical channel identity | | Not Present | | RBS2-044 |
| - CHOICE RLC size list | | Configured | | RBS2-045 |
| - MAC logical channel priority | | 7 | | RBS2-046 |
| - Downlink RLC logical channel info | | | | RBS2-047 |
| - Number of downlink RLC logical channels | | 1 | | RBS2-048 |
| - Downlink transport channel type | | DCH | | RBS2-049 |
| - DL DCH Transport channel identity | | 6 | | RBS2-050 |
| - DL DSCH Transport channel identity | | Not Present | | RBS2-051 |
| - Logical channel identity | | Not Present | | RBS2-052 |
| RB information to reconfigure list | | Not Present | Rel-6 | RBS2-053 |
| RB information to be affected list | | Not Present | | RBS2-054 |
| Downlink counter synchronization info | | Not Present | | RBS2-055 |
| UL Transport channel information for all transport channels | | | | RBS2-056 |
| - PRACH TFCS | | Not Present | | RBS2-057 |
| - CHOICE mode | | FDD | | RBS2-058 |
| - TFC subset | | Not Present | | RBS2-059 |
| - UL DCH TFCS | | | | RBS2-060 |
| - CHOICE TFCI signalling | | Normal | | RBS2-061 |
| - TFCI Field 1 information | | | | RBS2-062 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS2-063 |
| - TFCS complete reconfigure information | | | | RBS2-064 |
| - CHOICE CTFC Size | A1 | 2 bit CTFC | | RBS2-065 |

| Information Element | Condition | Value/remark | Version | Index |
|----------------------------|-----------|------------------------|---------|----------|
| - CTFC information | | 4 TFCs | | RBS2-066 |
| - 2bit CTFC | | 0 | | RBS2-067 |
| - Power offset Information | | | | RBS2-068 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-069 |
| - Reference TFC ID | | 0 | | RBS2-070 |
| - CHOICE mode | | FDD | | RBS2-071 |
| - Power offset P_{p-m} | | Not Present | | RBS2-072 |
| - 2bit CTFC | | 2 | | RBS2-073 |
| - Power offset Information | | | | RBS2-074 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-075 |
| - Reference TFC ID | | 0 | | RBS2-076 |
| - CHOICE mode | | FDD | | RBS2-077 |
| - Power offset P_{p-m} | | Not Present | | RBS2-078 |
| - 2bit CTFC | | 1 | | RBS2-079 |
| - Power offset Information | | | | RBS2-080 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-081 |
| - Reference TFC ID | | 0 | | RBS2-082 |
| - CHOICE mode | | FDD | | RBS2-083 |
| - Power offset P_{p-m} | | Not Present | | RBS2-084 |
| - 2bit CTFC | | 3 | | RBS2-085 |
| - Power offset Information | | | | RBS2-086 |
| - CHOICE Gain Factors | | Signalled Gain Factors | | RBS2-087 |
| - CHOICE mode | | FDD | | RBS2-088 |
| - Gain factor β_c | | 8 | | RBS2-089 |
| - Gain factor β_d | | 15 | | RBS2-090 |
| - Reference TFC ID | | 0 | | RBS2-091 |
| - CHOICE mode | | FDD | | RBS2-092 |
| - Power offset P_{p-m} | | Not Present | | RBS2-093 |
| - CHOICE CTFC Size | A2 | 4 bit CTFC | | RBS2-094 |
| - CTFC information | | 6 TFCs | | RBS2-095 |
| - 4bit CTFC | | 0 | | RBS2-096 |
| - Power offset Information | | | | RBS2-097 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-098 |
| - Reference TFC ID | | 0 | | RBS2-099 |
| - CHOICE mode | | FDD | | RBS2-100 |
| - Power offset P_{p-m} | | Not Present | | RBS2-101 |
| - 4bit CTFC | | 3 | | RBS2-102 |
| - Power offset Information | | | | RBS2-103 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-104 |
| - Reference TFC ID | | 0 | | RBS2-105 |
| - CHOICE mode | | FDD | | RBS2-106 |
| - Power offset P_{p-m} | | Not Present | | RBS2-107 |
| - 4bit CTFC | | 1 | | RBS2-108 |
| - Power offset Information | | | | RBS2-109 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-110 |
| - Reference TFC ID | | 0 | | RBS2-111 |
| - CHOICE mode | | FDD | | RBS2-112 |
| - Power offset P_{p-m} | | Not Present | | RBS2-113 |
| - 4bit CTFC | | 4 | | RBS2-114 |
| - Power offset Information | | | | RBS2-115 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-116 |
| - Reference TFC ID | | 0 | | RBS2-117 |
| - CHOICE mode | | FDD | | RBS2-118 |
| - Power offset P_{p-m} | | Not Present | | RBS2-119 |
| - 4bit CTFC | | 2 | | RBS2-120 |
| - Power offset Information | | | | RBS2-121 |
| - CHOICE Gain Factors | | Computed Gain Factors | | RBS2-122 |
| - Reference TFC ID | | 0 | | RBS2-123 |
| - CHOICE mode | | FDD | | RBS2-124 |
| - Power offset P_{p-m} | | Not Present | | RBS2-125 |
| - 4bit CTFC | | 5 | | RBS2-126 |
| - Power offset Information | | | | RBS2-127 |
| - CHOICE Gain Factors | | Signalled Gain Factors | | RBS2-128 |
| - CHOICE mode | | FDD | | RBS2-129 |
| - Gain factor β_c | | 8 | | RBS2-130 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|---------|--|
| - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} | | 15 0 FDD Not Present | | RBS2-131 RBS2-132 RBS2-133 RBS2-134 |
| Deleted UL TrCH information list Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type | A1,A2 | Not Present 1 DCH 1 Dedicated transport channels | | RBS2-135 RBS2-136 RBS2-137 RBS2-138 RBS2-139 RBS2-140 RBS2-141 |
| - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List | A1 | 260 bits 2 Not Present 0 Not Present 1 ALL | | RBS2-142 RBS2-143 RBS2-144 RBS2-145 RBS2-146 RBS2-147 RBS2-148 RBS2-149 |
| - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List | A2 | 260 bits 1 Not Present 0 ALL 16 bits 1 Not Present 1 ALL 260 bits 1 Not Present 1 ALL | | RBS2-150 RBS2-151 RBS2-152 RBS2-153 RBS2-154 RBS2-155 RBS2-156 RBS2-157 RBS2-158 RBS2-159 RBS2-160 RBS2-161 RBS2-162 RBS2-163 RBS2-164 RBS2-165 RBS2-166 RBS2-167 |
| - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size CHOICE mode DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode | A1,A2 | 20 Convolutional 1/3 256 0 Not Present Not Present FDD | | RBS2-168 RBS2-169 RBS2-170 RBS2-171 RBS2-172 RBS2-173 RBS2-174 RBS2-175 RBS2-176 RBS2-177 |
| - CHOICE DL parameters | A1 | Same as UL | | RBS2-178 |
| - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCS signalling - TFCS Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information | A2 | DL DCH TFCS Normal Complete reconfiguration 4 bit CTFC 4 TFCS 0 Computed Gain Factors 0 FDD Not Present 2 | | RBS2-179 RBS2-180 RBS2-181 RBS2-182 RBS2-183 RBS2-184 RBS2-185 RBS2-186 RBS2-187 RBS2-188 RBS2-189 RBS2-190 RBS2-191 RBS2-192 RBS2-193 RBS2-194 |

| Information Element | Condition | Value/remark | Version | Index | | | | |
|---|-----------|---|----------|--|------------------------------|--|-------------|----------|
| <ul style="list-style-type: none"> - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} | | Computed Gain Factors 0 FDD Not Present 1 | | RBS2-195 RBS2-196 RBS2-197 RBS2-198 RBS2-199 RBS2-200 RBS2-201 RBS2-202 RBS2-203 RBS2-204 RBS2-205 RBS2-206 RBS2-207 RBS2-208 RBS2-209 RBS2-210 RBS2-211 RBS2-212 RBS2-213 | | | | |
| | | Deleted DL TrCH information list | | A1,A2 | Not Present | | RBS2-214 | |
| | | Added or Reconfigured DL TrCH information list | | | 1 | | RBS2-215 | |
| | | - Added or Reconfigured DL TrCH information | | | | | | RBS2-216 |
| | | - Downlink transport channel type | | | DCH | | | RBS2-217 |
| | | - DL Transport channel identity | | | 6 | | | RBS2-218 |
| | | - CHOICE DL parameters | | | | | | RBS2-219 |
| | | - CHOICE Transport channel type | | | Dedicated transport channels | | RBS2-220 | |
| | | <ul style="list-style-type: none"> - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List | | A1 | 244 bits | | RBS2-221 | |
| | | | | | | | 2 | RBS2-222 |
| | | | | | | | Not Present | RBS2-223 |
| | | | | | | | 0 | RBS2-224 |
| | | | | | | | Not Present | RBS2-225 |
| | | | | | | | 1 | RBS2-226 |
| | ALL | | RBS2-227 | | | | | |
| | | RBS2-228 | | | | | | |
| <ul style="list-style-type: none"> - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List | A2 | 0 bits | | RBS2-229 | | | | |
| | | | | 1 | RBS2-230 | | | |
| | | | | Not Present | RBS2-231 | | | |
| | | | | 1 | RBS2-232 | | | |
| | | | | ALL | RBS2-233 | | | |
| | | | | | RBS2-234 | | | |
| | | | | | RBS2-235 | | | |
| | | | | 244 bits | RBS2-236 | | | |
| | | | | 1 | RBS2-237 | | | |
| | | | | Not Present | RBS2-238 | | | |
| | | | | 1 | RBS2-239 | | | |
| | ALL | RBS2-240 | | | | | | |
| <ul style="list-style-type: none"> - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value Frequency info Maximum allowed UL TX power CHOICE channel requirement Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - DPCCH power offset | A1,A2 | 20 | | RBS2-241 | | | | |
| | | | | Convolutional | RBS2-242 | | | |
| | | | | 1/3 | RBS2-243 | | | |
| | | | | 256 | RBS2-244 | | | |
| | | | | 16 | RBS2-245 | | | |
| | | | | | RBS2-246 | | | |
| | | | | | RBS2-247 | | | |
| | | | | -20 (-2.0) | RBS2-248 | | | |
| | | | | Not Present | RBS2-249 | | | |
| | | | | 33dBm | RBS2-250 | | | |
| | | | | Uplink DPCH info | RBS2-251 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | FDD | | | | |
| | | | | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | | | |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|--------------------|----------|
| - PC Preamble | | 1 frame | | RBS2-256 |
| - SRB delay | | 7 frames | | RBS2-257 |
| - Power Control Algorithm | | Algorithm1 | | RBS2-258 |
| - TPC step size | | 0 (1dB) | | RBS2-259 |
| - Δ_{ACK} | | Not Present | Rel-5 | RBS2-260 |
| - Δ_{NACK} | | Not Present | Rel-5 | RBS2-261 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 | RBS2-262 |
| - CHOICE mode | | FDD | | RBS2-263 |
| - Scrambling code type | | Long | | RBS2-264 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBS2-265 |
| - Number of DPDCH | | 1 | | RBS2-266 |
| - spreading factor | | 64 | | RBS2-267 |
| - TFCl existence | | TRUE | | RBS2-268 |
| - Number of FBI bit | | Not Present(0) | | RBS2-269 |
| - Puncturing Limit | | 1 | | RBS2-270 |
| CHOICE Mode | | FDD | R99 and Rel-4 only | RBS2-271 |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only | RBS2-272 |
| E-DCH Info | | Not Present | Rel-6 | RBS2-273 |
| Downlink HS-PDSCH Information | | Not Present | Rel-5 | RBS2-274 |
| Downlink information common for all radio links | | | | RBS2-275 |
| - Downlink DPCH info common for all RL | | | | RBS2-276 |
| - Timing indicator | | Maintain | | RBS2-277 |
| - CFN-targetSFN frame offset | | Not Present | | RBS2-278 |
| - Downlink DPCH power control information | | | | RBS2-279 |
| - CHOICE mode | | FDD | | RBS2-280 |
| - DPC mode | | 0 (single) | | RBS2-281 |
| - CHOICE mode | | FDD | | RBS2-282 |
| - Power offset $P_{Pilot-DPCH}$ | | 0 | | RBS2-283 |
| - DL rate matching restriction information | | Not Present | | RBS2-284 |
| - Spreading factor | | 128 | | RBS2-285 |
| - Fixed or Flexible Position | | Fixed | | RBS2-286 |
| - TFCl existence | | TRUE | | RBS2-287 |
| - CHOICE SF | | 128 | | RBS2-288 |
| - Number of bits for Pilot bits | | 8 | | RBS2-289 |
| - CHOICE mode | | FDD | | RBS2-290 |
| - DPCH compressed mode info | | Not Present | | RBS2-291 |
| - TX Diversity mode | | None | | RBS2-292 |
| - SSDT information | | Not Present | R99 and Rel-4 only | RBS2-293 |
| - Default DPCH Offset Value | | Not Present | | RBS2-294 |
| - MAC-hs reset indicator | | Not Present | Rel-5 | RBS2-295 |
| - Post-verification period | | Not Present | Rel-6 | RBS2-296 |
| Downlink information for per radio link list | | | | RBS2-297 |
| - Downlink information for each radio link | | | | RBS2-298 |
| - CHOICE mode | | FDD | | RBS2-299 |
| - Primary CPICH info | | | | RBS2-300 |
| - Primary scrambling code | | Reference to clause 6.1 "Default settings (FDD)" | | RBS2-301 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RBS2-302 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RBS2-303 |
| - Downlink DPCH info for each RL | | | | RBS2-304 |
| - CHOICE mode | | FDD | | RBS2-305 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RBS2-306 |
| - DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBS2-307 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--------------|--------------------|----------|
| - Secondary CPICH info | | Not Present | | RBS2-308 |
| - DL channelisation code | | | | RBS2-309 |
| - Secondary scrambling code | | Not Present | | RBS2-310 |
| - Spreading factor | | 128 | | RBS2-311 |
| - Code number | | 96 | | RBS2-312 |
| - Scrambling code change | | No change | | RBS2-313 |
| - TPC combination index | | 0 | | RBS2-314 |
| - SSDT Cell Identity | | Not Present | R99 and Rel-4 only | RBS2-315 |
| - Closed loop timing adjustment mode | | Not Present | | RBS2-316 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RBS2-317 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBS2-318 |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for "UE supports CS RAB for Test Loop Mode2 RMC 12.2/12.2 (TM)" |
| A2 | This IE is needed for "UE supports CS RAB for Test Loop Mode2 RMC 0 and 12.2 (TM)" |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| Message Type | | | RBSH-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSH-002 |
| Integrity check info | | | RBSH-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSH-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSH-005 |
| Integrity protection mode info | Not Present | | RBSH-006 |
| Ciphering mode info | Not Present | | RBSH-007 |
| Activation time | Not Present | | RBSH-008 |
| New U-RNTI | Not Present | | RBSH-009 |
| New C-RNTI | Not Present | | RBSH-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSH-011 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSH-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSH-013 |
| RRC State indicator | CELL_DCH | | RBSH-014 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSH-015 |
| CN information info | Not Present | | RBSH-016 |
| URA identity | Not Present | | RBSH-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSH-018 |
| Signalling RB information to setup | Not Present | | RBSH-019 |
| RAB information for setup list | | | RBSH-020 |
| - RAB information for setup | | | RBSH-021 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSH-022 |
| - RAB identity | 0000 0110B | | RBSH-023 |
| - CN domain identity | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSH-024 |
| - NAS Synchronization Indicator | PS domain | | RBSH-025 |
| - Re-establishment timer | Not Present | | RBSH-026 |
| - RB information to setup | UseT315 | | RBSH-027 |
| - RB identity | 25 | | RBSH-028 |
| - PDCP info | Not Present | | RBSH-029 |
| - CHOICE RLC info type | RLC info | | RBSH-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBSH-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSH-032 |
| - DL UM RLC LI size | Selected with DL UM RLC data size | Rel-5 | RBSH-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSH-034 |
| - RB mapping info | | | RBSH-035 |
| - Information for each multiplexing option | 1 RBmuxOptions | | RBSH-036 |
| - RLC logical channel mapping indicator | Not Present | | RBSH-037 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - Downlink RLC logical channel info | | | RBSH-038 |
| - Number of downlink RLC logical channels | 1 | | RBSH-039 |
| - Downlink transport channel type | HS-DSCH | | RBSH-040 |
| - DL DCH Transport channel identity | Not Present | | RBSH-041 |
| - DL DSCH Transport channel identity | Not Present | | RBSH-042 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSH-043 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSH-044 |
| - Logical channel identity | Not Present | | RBSH-045 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSH-046 |
| RB information to be affected list | Not Present | | RBSH-047 |
| Downlink counter synchronization info | Not Present | | RBSH-048 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSH-049 |
| UL Transport channel information for all transport channels | | | RBSH-050 |
| - PRACH TFCS | Not Present | | RBSH-051 |
| - CHOICE mode | FDD | | RBSH-052 |
| - TFC subset | Not Present | | RBSH-053 |
| - UL DCH TFCS | | | RBSH-054 |
| - CHOICE TFCI signalling | Normal | | RBSH-055 |
| - TFCI Field 1 information | | | RBSH-056 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-057 |
| - TFCS complete reconfigure information | | | RBSH-058 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-059 |
| - CTFC information | 4 TFCs | | RBSH-060 |
| - CTFC | Reference to clause TS 34.121 clause C.2.1 Parameter Set | | RBSH-061 |
| - Power offset information | | | RBSH-062 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBSH-063 |
| - Gain factor β_c | 8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSH-064 |
| - Gain factor β_d | 15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSH-065 |
| - Reference TFC ID | 0 | | RBSH-066 |
| - CHOICE mode | FDD | | RBSH-067 |
| - Power offset P _{p-m} | Not Present | | RBSH-068 |
| Deleted UL TrCH information list | Not Present | | RBSH-069 |
| Added or Reconfigured TrCH information list | Not Present | | RBSH-070 |
| CHOICE mode | Not Present | | RBSH-071 |
| DL Transport channel information common for all transport channel | | | RBSH-072 |
| - SCCPCH TFCS | Not Present | | RBSH-073 |
| - CHOICE mode | FDD | | RBSH-074 |
| - CHOICE DL parameters | Explicit | | RBSH-075 |
| - DL DCH TFCS | | | RBSH-076 |
| - CHOICE TFCI Signalling | Normal | | RBSH-077 |
| - TFCI Field 1 Information | | | RBSH-078 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-079 |
| - TFCS complete reconfigure | | | RBSH-080 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-081 |
| - CTFC information | 4 TFCs | | RBSH-082 |
| - CTFC | Reference to clause TS 34.121 clause C.3.1 Parameter Set | | RBSH-083 |
| - Power offset information | Not Present | | RBSH-084 |
| Deleted DL TrCH information | Not Present | | RBSH-085 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSH-086 |
| - Added or Reconfigured DL TrCH information | (HS-DSCH for DTCH) | | RBSH-087 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSH-088 |
| - DL Transport channel identity | Not Present | | RBSH-089 |
| - CHOICE DL parameters | HS-DSCH | | RBSH-090 |
| - HARQ Info | | Rel-5 | RBSH-091 |
| - Number of Processes | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSH-092 |
| - CHOICE Memory Partitioning | Explicit | | RBSH-093 |
| - Memory size | Reference to TS34.121 [2] Annex C Fixed | | RBSH-094 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------|
| | Reference Channels parameter "Number of HARQ Processes". | | |
| - Process Memory Size | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc." | | RBSH-095 |
| - Additional memory sizes for MIMO | Not Present | Rel-7 | RBSH-096 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSH-097 |
| - Added or reconfigured MAC-d flow | | | RBSH-098 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBSH-099 |
| - MAC-hs queue Id | 0 | | RBSH-100 |
| - MAC-d Flow Identity | 0 | | RBSH-101 |
| - T1 | 50 | | RBSH-102 |
| - MAC-hs window size | 16 | | RBSH-103 |
| - MAC-d PDU size Info | | | RBSH-104 |
| - MAC-d PDU size | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSH-105 |
| - MAC-d PDU size index | 0 | | RBSH-106 |
| - MAC-hs queue to delete list | Not present | | RBSH-107 |
| - DCH quality target | Not present | | RBSH-108 |
| Frequency info | Not Present | | RBSH-109 |
| Multi-frequency Info | Not present | Rel-7 | RBSH-110 |
| DTX-DRX timing information | Not present | Rel-7 | RBSH-111 |
| DRX Information | Not present | Rel-7 | RBSH-112 |
| HS-SCCH less Information | Not present | Rel-7 | RBSH-113 |
| MIMO parameters | Not present | Rel-7 | RBSH-114 |
| Maximum allowed UL TX power | 33dBm | | RBSH-115 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSH-116 |
| Uplink DPCH info | | Rel-6 | RBSH-117 |
| - Uplink DPCH power control info | | | RBSH-118 |
| - CHOICE mode | FDD | | RBSH-119 |
| - DPCCH power offset | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | RBSH-120 |
| - PC Preamble | 1 frame | | RBSH-121 |
| - SRB delay | 7 frames | | RBSH-122 |
| - Power Control Algorithm | Algorithm1 | | RBSH-123 |
| - TPC step size | 0 (1dB) | | RBSH-124 |
| - Δ_{ACK} | 3 | Rel-5 | RBSH-125 |
| - Δ_{NACK} | 3 | Rel-5 | RBSH-126 |
| - Ack-Nack repetition factor | 1 | Rel-5 | RBSH-127 |
| - CHOICE mode | FDD | | RBSH-128 |
| - Scrambling code type | Long | | RBSH-129 |
| - Scrambling code number | 0 (0 to 16777215) | | RBSH-130 |
| - Number of DPDCH | Not Present (1) | | RBSH-131 |
| - spreading factor | 64 | | RBSH-132 |
| - TFCI existence | TRUE | | RBSH-133 |
| - Number of FBI bit | Not Present(0) | | RBSH-134 |
| - Puncturing Limit | 1 | | RBSH-135 |
| CHOICE Mode | FDD | R99 and Rel-4 only | RBSH-136 |
| - Downlink PDSCH information | Not Present | R99 and Rel-4 only | RBSH-137 |
| E-DCH Info | Not Present | Rel-6 | RBSH-138 |
| Downlink HS-PDSCH Information | | | RBSH-139 |
| - HS-SCCH Info | | | RBSH-140 |
| - CHOICE mode | FDD | | RBSH-141 |
| - DL Scrambling Code | | | RBSH-142 |
| - HS-SCCH Channelisation Code Information | | | RBSH-143 |
| - HS-SCCH Channelisation Code | 2 | | RBSH-144 |
| - HS-SCCH Channelisation Code | 3 | | RBSH-145 |
| - HS-SCCH Channelisation Code | 6 | | RBSH-146 |
| - HS-SCCH Channelisation Code | 7 | | RBSH-147 |
| - Measurement Feedback Info | | | RBSH-148 |
| - CHOICE mode | FDD | | RBSH-149 |
| - POhdsch | 6 dB | Rel-5 | RBSH-150 |
| - CQI Feedback cycle, k | 2 ms | Rel-5 | RBSH-151 |
| - CQI repetition factor | 1 | Rel-5 | RBSH-152 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------|
| - Δ_{CQI} | 5 (corresponds to 0dB in relative power offset) | Rel-5 | RBSH-153 |
| - CHOICE mode | FDD | | RBSH-154 |
| - Downlink 64QAM configured | Not Present | Rel-7 | RBSH-155 |
| Downlink information common for all radio links | Not Present | | RBSH-156 |
| Downlink information per radio link list | | | RBSH-157 |
| - Downlink information for each radio link | | | RBSH-158 |
| - CHOICE mode | FDD | | RBSH-159 |
| - Primary CPICH info | | | RBSH-160 |
| - Primary scrambling code | Reference to clause 6.1 "Default settings (FDD)" | | RBSH-161 |
| - PDSCH with SHO DCH info | Not Present | R99 and Rel-4 only | RBSH-162 |
| - PDSCH code mapping | Not Present | R99 and Rel-4 only | RBSH-163 |
| - Serving HS-DSCH radio link indicator | TRUE | Rel-5 | RBSH-164 |
| - Downlink DPCH info for each RL | | | RBSH-165 |
| - CHOICE mode | FDD | | RBSH-166 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSH-167 |
| - DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSH-168 |
| - Secondary CPICH info | Not Present | | RBSH-169 |
| - DL channelisation code | | | RBSH-170 |
| - Secondary scrambling code | Not present | | RBSH-171 |
| - Spreading factor | 128 | | RBSH-172 |
| - Code number | 96 | | RBSH-173 |
| - Scrambling code change | No change | | RBSH-174 |
| - TPC combination index | 0 | | RBSH-175 |
| - SSDT Cell Identity | Not Present | R99 and Rel-4 only | RBSH-176 |
| - Closed loop timing adjustment mode | Not Present | | RBSH-177 |
| - SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RBSH-178 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSH-179 |

Contents of RADIO BEARER SETUP message: BTFD RMC for Test Loop Mode 2

| Information Element | Value/remark | Version | Index |
|------------------------------------|---|--------------------|----------|
| Message Type | | | RBSB-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSB-002 |
| Integrity check info | | | RBSB-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSB-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSB-005 |
| Integrity protection mode info | Not Present | | RBSB-006 |
| Ciphering mode info | Not Present. | | RBSB-007 |
| | For correct operation of test loop mode 2 this IE shall be omitted. | | |
| Activation time | $(256 + \text{CFN} - (\text{CFN} \text{ MOD } 8 + 8)) \text{ MOD } 256$ | | RBSB-008 |
| New U-RNTI | Not Present | | RBSB-009 |
| New C-RNTI | Not Present | | RBSB-010 |
| New DSCH-RNTI | Not Present | R99 and Rel-4 only | RBSB-011 |
| New H-RNTI | Not Present | Rel-5 | RBSB-012 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSB-013 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSB-014 |
| RRC State indicator | CELL_DCH | | RBSB-015 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSB-016 |
| CN information info | Not Present | | RBSB-017 |
| URA identity | Not Present | | RBSB-018 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RBSB-019 |
| - RAB information for setup | | | RBSB-020 |
| - RAB info | | | RBSB-021 |
| - RAB identity | 0000 0001B | | RBSB-022 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------|---|
| <ul style="list-style-type: none"> - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity RB information to reconfigure list RB information to be affected Downlink counter synchronization info UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size <ul style="list-style-type: none"> - ctfc6Bit - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID | <p>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.</p> <p>CS domain</p> <p>Not Present</p> <p>UseT314</p> <p>10</p> <p>Not Present</p> <p>RLC info</p> <p>TM RLC</p> <p>Not Present</p> <p>FALSE</p> <p>TM RLC</p> <p>FALSE</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>1</p> <p>Not Present</p> <p>Configured</p> <p>7</p> <p>1</p> <p>DCH</p> <p>6</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>RMC for BTFD</p> <p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>ctfc6Bit</p> <p>22</p> <p>0</p> <p>ComputedGainFactors</p> <p>0</p> <p>11</p> <p>ComputedGainFactors</p> <p>0</p> <p>1</p> | <p>Rel-6</p> | <p>RBSB-023</p> <p>RBSB-024</p> <p>RBSB-025</p> <p>RBSB-026</p> <p>RBSB-027</p> <p>RBSB-028</p> <p>RBSB-029</p> <p>RBSB-030</p> <p>RBSB-031</p> <p>RBSB-032</p> <p>RBSB-033</p> <p>RBSB-034</p> <p>RBSB-035</p> <p>RBSB-036</p> <p>RBSB-037</p> <p>RBSB-038</p> <p>RBSB-039</p> <p>RBSB-040</p> <p>RBSB-041</p> <p>RBSB-042</p> <p>RBSB-043</p> <p>RBSB-044</p> <p>RBSB-045</p> <p>RBSB-046</p> <p>RBSB-047</p> <p>RBSB-048</p> <p>RBSB-049</p> <p>RBSB-050</p> <p>RBSB-051</p> <p>RBSB-052</p> <p>RBSB-053</p> <p>RBSB-054</p> <p>RBSB-055</p> <p>RBSB-056</p> <p>RBSB-057</p> <p>RBSB-058</p> <p>RBSB-059</p> <p>RBSB-060</p> <p>RBSB-061</p> <p>RBSB-062</p> <p>RBSB-063</p> <p>RBSB-064</p> <p>RBSB-065</p> <p>RBSB-066</p> <p>RBSB-067</p> <p>RBSB-068</p> <p>RBSB-069</p> <p>RBSB-070</p> <p>RBSB-071</p> <p>RBSB-072</p> <p>RBSB-073</p> <p>RBSB-074</p> |
| <ul style="list-style-type: none"> -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation -modeSpecificInfo -fdd - Gain factor βc - Gain factor βd - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) | <p>ComputedGainFactors</p> <p>0</p> <p>12</p> <p>SignalledGainFactors</p> <p>Fdd</p> <p>8</p> <p>15</p> <p>0</p> <p>2</p> | | <p>RBSB-075</p> <p>RBSB-076</p> <p>RBSB-077</p> <p>RBSB-078</p> <p>RBSB-079</p> <p>RBSB-080</p> <p>RBSB-081</p> <p>RBSB-082</p> <p>RBSB-083</p> <p>RBSB-084</p> <p>RBSB-085</p> <p>RBSB-086</p> |

| Information Element | Value/remark | Version | Index |
|-----------------------------|----------------------|---------|----------|
| -gainFactorInformation | ComputedGainFactors | | RBSB-087 |
| - Reference TFC ID | 0 | | RBSB-088 |
| - ctfc6 | 13 | | RBSB-089 |
| -powerOffsetInformation(OP) | | | RBSB-090 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-091 |
| - Reference TFC ID | 0 | | RBSB-092 |
| - ctfc6 | 3 | | RBSB-093 |
| -powerOffsetInformation(OP) | | | RBSB-094 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-095 |
| - Reference TFC ID | 0 | | RBSB-096 |
| - ctfc6 | 14 | | RBSB-097 |
| -powerOffsetInformation(OP) | | | RBSB-098 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-099 |
| - Reference TFC ID | 0 | | RBSB-100 |
| - ctfc6 | 4 | | RBSB-101 |
| -powerOffsetInformation(OP) | | | RBSB-102 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-103 |
| - Reference TFC ID | 0 | | RBSB-104 |
| - ctfc6 | 15 | | RBSB-105 |
| -powerOffsetInformation(OP) | | | RBSB-106 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-107 |
| - Reference TFC ID | 0 | | RBSB-108 |
| - ctfc6 | 5 | | RBSB-109 |
| -powerOffsetInformation(OP) | | | RBSB-110 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-111 |
| - Reference TFC ID | 0 | | RBSB-112 |
| - ctfc6 | 16 | | RBSB-113 |
| -powerOffsetInformation(OP) | | | RBSB-114 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-115 |
| - Reference TFC ID | 0 | | RBSB-116 |
| - ctfc6 | 6 | | RBSB-117 |
| -powerOffsetInformation(OP) | | | RBSB-118 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-119 |
| - Reference TFC ID | 1 | | RBSB-120 |
| - ctfc6 | 17 | | RBSB-121 |
| -powerOffsetInformation(OP) | | | RBSB-122 |
| -gainFactorInformation | SignalledGainFactors | | RBSB-123 |
| -modeSpecificInfo | Fdd | | RBSB-124 |
| -fdd | | | RBSB-125 |
| - Gain factor β_c | 11 | | RBSB-126 |
| - Gain factor β_d | 15 | | RBSB-127 |
| - Reference TFC ID | 1 | | RBSB-128 |
| - ctfc6 | 7 | | RBSB-129 |
| -powerOffsetInformation(OP) | | | RBSB-130 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-131 |
| - Reference TFC ID | 1 | | RBSB-132 |
| - ctfc6 | 18 | | RBSB-133 |
| -powerOffsetInformation(OP) | | | RBSB-134 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-135 |
| - Reference TFC ID | 1 | | RBSB-136 |
| - ctfc6 | 8 | | RBSB-137 |
| -powerOffsetInformation(OP) | | | RBSB-138 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-139 |
| - Reference TFC ID | 1 | | RBSB-140 |
| - ctfc6 | 19 | | RBSB-141 |
| -powerOffsetInformation(OP) | | | RBSB-142 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-143 |
| - Reference TFC ID | 1 | | RBSB-144 |
| - ctfc6 | 9 | | RBSB-145 |
| -powerOffsetInformation(OP) | | | RBSB-146 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-147 |
| - Reference TFC ID | 1 | | RBSB-148 |
| - ctfc6 | 20 | | RBSB-149 |
| -powerOffsetInformation(OP) | | | RBSB-150 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-151 |
| - Reference TFC ID | 1 | | RBSB-152 |
| - ctfc6 | 10 | | RBSB-153 |

| Information Element | Value/remark | Version | Index |
|---|------------------------------|---------|----------|
| -powerOffsetInformation(OP) | | | RBSB-154 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-155 |
| - Reference TFC ID | 1 | | RBSB-156 |
| - ctfc6 | 21 | | RBSB-157 |
| -powerOffsetInformation(OP) | | | RBSB-158 |
| -gainFactorInformation | ComputedGainFactors | | RBSB-159 |
| - Reference TFC ID | 1 | | RBSB-160 |
| Added or Reconfigured UL TrCH information list | 1 | | RBSB-161 |
| - Added or Reconfigured UL TrCH information | | | RBSB-162 |
| - Uplink transport channel type | DCH | | RBSB-163 |
| - UL Transport channel identity | 1 | | RBSB-164 |
| - TFS | | | RBSB-165 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSB-166 |
| -DedicatedDynamicTF-Info | | | RBSB-167 |
| RLC size | 256 | | RBSB-168 |
| -numberOfTbSizeList | | | RBSB-169 |
| -NumberOfTransportBlocks | Zero | | RBSB-170 |
| -NumberOfTransportBlocks | One | | RBSB-171 |
| - Choice Logical channel List | ALL | | RBSB-172 |
| RLC size | 216 | | RBSB-173 |
| -numberOfTbSizeList | | | RBSB-174 |
| -NumberOfTransportBlocks | One | | RBSB-175 |
| - Choice Logical channel List | ALL | | RBSB-176 |
| RLC size | 171 | | RBSB-177 |
| -numberOfTbSizeList | | | RBSB-178 |
| -NumberOfTransportBlocks | One | | RBSB-179 |
| - Choice Logical channel List | ALL | | RBSB-180 |
| RLC size | 160 | | RBSB-181 |
| -numberOfTbSizeList | | | RBSB-182 |
| -NumberOfTransportBlocks | One | | RBSB-183 |
| - Choice Logical channel List | ALL | | RBSB-184 |
| RLC size | 146 | | RBSB-185 |
| -numberOfTbSizeList | | | RBSB-186 |
| -NumberOfTransportBlocks | One | | RBSB-187 |
| - Choice Logical channel List | ALL | | RBSB-188 |
| RLC size | 130 | | RBSB-189 |
| -numberOfTbSizeList | | | RBSB-190 |
| -NumberOfTransportBlocks | One | | RBSB-191 |
| - Choice Logical channel List | ALL | | RBSB-192 |
| RLC size | 115 | | RBSB-193 |
| -numberOfTbSizeList | | | RBSB-194 |
| -NumberOfTransportBlocks | One | | RBSB-195 |
| - Choice Logical channel List | ALL | | RBSB-196 |
| RLC size | 107 | | RBSB-197 |
| -numberOfTbSizeList | | | RBSB-198 |
| -NumberOfTransportBlocks | One | | RBSB-199 |
| - Choice Logical channel List | ALL | | RBSB-200 |
| RLC size | 51 | | RBSB-201 |
| -numberOfTbSizeList | | | RBSB-202 |
| -NumberOfTransportBlocks | One | | RBSB-203 |
| - Choice Logical channel List | ALL | | RBSB-204 |
| RLC size | 12 | | RBSB-205 |
| -numberOfTbSizeList | | | RBSB-206 |
| -NumberOfTransportBlocks | One | | RBSB-207 |
| - Choice Logical channel List | ALL | | RBSB-208 |
| -Semistatic Transport Format Information | | | RBSB-209 |
| -Transmission Time interval | 20 ms | | RBSB-210 |
| -channelCodingType | Convolutional | | RBSB-211 |
| -convolutional | 1/3 | | RBSB-212 |
| - Rate matching attribute | 256 | | RBSB-213 |
| - CRC size | 0 | | RBSB-214 |
| DL Transport channel information common for all transport channel | | | RBSB-215 |
| - SCCPCH TFCS | Not Present | | RBSB-216 |
| - CHOICE mode | FDD | | RBSB-217 |
| - CHOICE DL parameters | Explicit | | RBSB-218 |
| - DL DCH TFCS | | | RBSB-219 |

| Information Element | Value/remark | Version | Index |
|--|------------------------------|---------|----------|
| - CHOICE TFCI signalling | Normal | | RBSB-220 |
| - TFCI Field 1 information | | | RBSB-221 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSB-222 |
| - TFCS complete reconfigure information | | | RBSB-223 |
| - CHOICE CTFC Size | Ctfc6Bit | | RBSB-224 |
| - ctfc6Bit | 18 | | RBSB-225 |
| - ctfc6 | 9 | | RBSB-226 |
| - ctfc6 | 0 | | RBSB-227 |
| - ctfc6 | 10 | | RBSB-228 |
| - ctfc6 | 1 | | RBSB-229 |
| - ctfc6 | 11 | | RBSB-230 |
| - ctfc6 | 2 | | RBSB-231 |
| - ctfc6 | 12 | | RBSB-232 |
| - ctfc6 | 3 | | RBSB-233 |
| - ctfc6 | 13 | | RBSB-234 |
| - ctfc6 | 4 | | RBSB-235 |
| - ctfc6 | 14 | | RBSB-236 |
| - ctfc6 | 5 | | RBSB-237 |
| - ctfc6 | 15 | | RBSB-238 |
| - ctfc6 | 6 | | RBSB-239 |
| - ctfc6 | 16 | | RBSB-240 |
| - ctfc6 | 7 | | RBSB-241 |
| - ctfc6 | 17 | | RBSB-242 |
| - ctfc6 | 8 | | RBSB-243 |
| Deleted DL TrCH information | Not Present | | RBSB-244 |
| Added or Reconfigured DL TrCH information list | 1 | | RBSB-245 |
| - Added or Reconfigured DL TrCH information | | | RBSB-246 |
| - Downlink transport channel type | DCH | | RBSB-247 |
| - DL Transport channel identity | 6 | | RBSB-248 |
| - CHOICE DL parameters | Explicit | | RBSB-249 |
| - TFS | | | RBSB-250 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSB-251 |
| -DedicatedDynamicTF-Info | | | RBSB-252 |
| RLC size | 244 | | RBSB-253 |
| -numberOfTbSizeList | | | RBSB-254 |
| -NumberOfTransportBlocks | One | | RBSB-255 |
| - Choice Logical channel List | ALL | | RBSB-256 |
| RLC size | 204 | | RBSB-257 |
| -numberOfTbSizeList | | | RBSB-258 |
| -NumberOfTransportBlocks | One | | RBSB-259 |
| - Choice Logical channel List | ALL | | RBSB-260 |
| RLC size | 159 | | RBSB-261 |
| -numberOfTbSizeList | | | RBSB-262 |
| -NumberOfTransportBlocks | One | | RBSB-263 |
| - Choice Logical channel List | ALL | | RBSB-264 |
| RLC size | 148 | | RBSB-265 |
| -numberOfTbSizeList | | | RBSB-266 |
| -NumberOfTransportBlocks | One | | RBSB-267 |
| - Choice Logical channel List | ALL | | RBSB-268 |
| RLC size | 134 | | RBSB-269 |
| -numberOfTbSizeList | | | RBSB-270 |
| -NumberOfTransportBlocks | One | | RBSB-271 |
| - Choice Logical channel List | ALL | | RBSB-272 |
| RLC size | 118 | | RBSB-273 |
| -numberOfTbSizeList | | | RBSB-274 |
| -NumberOfTransportBlocks | One | | RBSB-275 |
| - Choice Logical channel List | ALL | | RBSB-276 |
| RLC size | 103 | | RBSB-277 |
| -numberOfTbSizeList | | | RBSB-278 |
| -NumberOfTransportBlocks | One | | RBSB-279 |
| - Choice Logical channel List | ALL | | RBSB-280 |
| RLC size | 95 | | RBSB-281 |
| -numberOfTbSizeList | | | RBSB-282 |
| -NumberOfTransportBlocks | One | | RBSB-283 |
| - Choice Logical channel List | ALL | | RBSB-284 |
| RLC size | 39 | | RBSB-285 |
| -numberOfTbSizeList | | | RBSB-286 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------------|----------|
| -NumberOfTransportBlocks | One | | RBSB-287 |
| - Choice Logical channel List | ALL | | RBSB-288 |
| -Semistatic Transport Format Information | | | RBSB-289 |
| -Transmission Time interval | 20 ms | | RBSB-290 |
| -channelCodingType | Convolutional | | RBSB-291 |
| -convolutional | 1/3 | | RBSB-292 |
| - Rate matching attribute | 256 | | RBSB-293 |
| - CRC size | 12 | | RBSB-294 |
| - DCH quality target | | | RBSB-295 |
| - BLER Quality value | -20 (-2.0) | | RBSB-296 |
| - Transparent mode signalling info | Not Present | | RBSB-297 |
| Frequency info | Not Present | | RBSB-298 |
| Multi-frequency Info | Not present | Rel-7 | RBSB-299 |
| DTX-DRX timing information | Not present | Rel-7 | RBSB-300 |
| DRX Information | Not present | Rel-7 | RBSB-301 |
| HS-SCCH less Information | Not present | Rel-7 | RBSB-302 |
| MIMO parameters | Not present | Rel-7 | RBSB-303 |
| Maximum allowed UL TX power | 33 dBm | | RBSB-304 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSB-305 |
| Uplink DPCH info | | Rel-6 | RBSB-306 |
| - Uplink DPCH power control info | | | RBSB-307 |
| - DPCCH power offset | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | RBSB-308 |
| - PC Preamble | 1 frame | | RBSB-309 |
| - SRB delay | 7 frames | | RBSB-310 |
| - Power Control Algorithm | Algorithm1 | | RBSB-311 |
| - TPC step size | 0 (1dB) | | RBSB-312 |
| - Δ_{ACK} | Not Present | Rel-5 | RBSB-313 |
| - Δ_{NACK} | Not Present | Rel-5 | RBSB-314 |
| - Ack-Nack repetition factor | Not Present | Rel-5 | RBSB-315 |
| - Scrambling code type | Long | | RBSB-316 |
| - Scrambling code number | 0 | | RBSB-317 |
| - Number of DPDCH | 1 | | RBSB-318 |
| - spreading factor | 64 | | RBSB-319 |
| - TFCI existence | TRUE | | RBSB-320 |
| - Number of FBI bit | Not Present(0) | | RBSB-321 |
| - Puncturing Limit | 1 | | RBSB-322 |
| CHOICE Mode | FDD | R99 and Rel-4 only | RBSB-323 |
| - Downlink PDSCH information | Not Present(0) | R99 and Rel-4 only | RBSB-324 |
| E-DCH Info | Not Present | Rel-6 | RBSB-325 |
| Downlink HS-PDSCH Information | Not Present | Rel-5 | RBSB-326 |
| Downlink information common for all radio links | | | RBSB-327 |
| - Downlink DPCH info common for all RL | FDD | | RBSB-328 |
| - Timing indicator | Maintain | | RBSB-329 |
| - CFN-targetSFN frame offset | Not Present | | RBSB-330 |
| - Downlink DPCH power control information | | | RBSB-331 |
| - DPC mode | 0 (single) | | RBSB-332 |
| - CHOICE mode | FDD | | RBSB-333 |
| - Power offset $P_{Pilot-DPCH}$ | 0 | | RBSB-334 |
| - DL rate matching restriction information | Not Present | | RBSB-335 |
| - Spreading factor | 128 | | RBSB-336 |
| - Number of bits for Pilot bits(SF=128,256) | 4 | | RBSB-337 |
| - Fixed or Flexible Position | Fixed | | RBSB-338 |
| - TFCI existence | FALSE | | RBSB-339 |
| - DPCH compressed mode info | Not Present | | RBSB-340 |
| - TX Diversity mode | None | | RBSB-341 |
| - SSDT information | Not Present | R99 and Rel-4 only | RBSB-342 |
| - Default DPCH Offset Value | Not Present | | RBSB-343 |
| Downlink information for each radio link list | | | RBSB-344 |
| - Primary CPICH info | | | RBSB-345 |

| Information Element | Value/remark | Version | Index |
|--|---|--------------------|----------|
| - Primary scrambling code | Reference to clause 6.1 "Default settings (FDD)" | | RBSB-346 |
| - PDSCH with SHO DCH info | Not Present | R99 and Rel-4 only | RBSB-347 |
| - PDSCH code mapping | Not Present | R99 and Rel-4 only | RBSB-348 |
| - Downlink DPCH info for each RL | | | RBSB-349 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSB-350 |
| - DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSB-351 |
| - Secondary CPICH info | Not Present | | RBSB-352 |
| - DL channelisation code | | | RBSB-353 |
| - Secondary scrambling code | Not Present | | RBSB-354 |
| - Spreading factor | 128 | | RBSB-355 |
| - Code number | 96 | | RBSB-356 |
| - Scrambling code change | No change | | RBSB-357 |
| - TPC combination index | 0 | | RBSB-358 |
| - SSDT Cell Identity | Not Present | R99 and Rel-4 only | RBSB-359 |
| - Closed loop timing adjustment mode | Not Present | | RBSB-360 |
| - SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RBSB-361 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSB-362 |

Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)

| Information Element | Condition | Value/remark | Version | Index |
|--|------------|--|--------------------|----------|
| Message Type | A1, A2, A3 | | | RBSE-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBSE-002 |
| Integrity check info | | | | RBSE-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSE-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBSE-005 |
| Integrity protection mode info | | Not Present | | RBSE-006 |
| Ciphering mode info | | Not Present | | RBSE-007 |
| Activation time | A1 | Not Present | | RBSE-008 |
| Activation time | A2, A3 | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBSE-009 |
| New U-RNTI | A1, A2, A3 | Not Present | | RBSE-010 |
| New C-RNTI | | Not Present | | RBSE-011 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBSE-012 |
| New H-RNTI | | '1010 1010 1010 1010' | Rel-5 | RBSE-013 |
| New Primary E-RNTI | | '1010 1010 1010 1010' | Rel-6 | RBSE-014 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBSE-015 |
| RRC State indicator | | CELL_DCH | | RBSE-016 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBSE-017 |
| CN information info | | Not Present | | RBSE-018 |
| URA identity | | Not Present | | RBSE-019 |
| CHOICE specification mode | | Complete specification | Rel-6 | RBSE-020 |
| - Signalling RB information to setup | | Not Present | | RBSE-021 |
| - RAB information for setup list | | | | RBSE-022 |
| - RAB information for setup | | | | RBSE-023 |
| - RAB info | | (high-speed UM DTCH for PS domain) 0000 0110B | | RBSE-024 |
| - RAB identity | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSE-025 |
| - CN domain identity | | PS domain | | RBSE-026 |
| - NAS Synchronization Indicator | | Not Present | | RBSE-027 |
| - Re-establishment timer | | useT315 | | RBSE-028 |
| - RB information to setup | | | | RBSE-029 |
| - RB identity | | 25 | | RBSE-030 |
| - PDCP info | | Not present | | RBSE-031 |
| - CHOICE RLC info type | | RLC info | | RBSE-032 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBSE-033 |
| - Transmission RLC discard | | Not present | | RBSE-034 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBSE-035 |
| - DL UM RLC LI size | | Selected with DL UM RLC data size | Rel-5 | RBSE-036 |
| - DL Reception Window Size | | Not present | Rel-6 | RBSE-037 |
| - One sided RLC re-establishment | | FALSE | | RBSE-038 |
| - Alternative E-bit interpretation | | Not present | Rel-6 | RBSE-039 |
| - RB mapping info | | | | RBSE-040 |
| - Information for each multiplexing option | | 1 RBMuxOptions | | RBSE-041 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-042 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-043 |
| - Uplink transport channel type | | E-DCH | | RBSE-044 |
| - Logical channel identity | | 7 | | RBSE-045 |
| - E-DCH MAC-d flow identity | | 2 | | RBSE-046 |
| - DDI | | 5 | | RBSE-047 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-048 |
| - RLC PDU size | | 336 bits | | RBSE-049 |
| - Include in scheduling info | | TRUE | | RBSE-050 |
| - MAC logical channel priority | | 8 | | RBSE-051 |
| - Downlink RLC logical channel info | | | | RBSE-052 |
| - Number of downlink RLC logical channels | | 1 | | RBSE-053 |
| - Downlink transport channel type | | HS-DSCH | | RBSE-054 |
| - DL DCH Transport channel identity | | Not Present | | RBSE-055 |

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|--|-----------|-----------------------------------|---------|----------|
| - DL DSCH Transport channel identity | | Not Present | Rel-7 | RBSE-056 |
| - CHOICE DL MAC header type | | MAC-hs | | RBSE-057 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBSE-058 |
| - Logical channel identity | | Not Present | | RBSE-059 |
| RB information to reconfigure list | | Not Present | Rel-6 | RBSE-060 |
| RB information to be affected | A1 | Not Present | | RBSE-061 |
| RB information to be affected | A2, A3 | | | RBSE-062 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBSE-063 |
| - RB mapping info | | | | RBSE-064 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-065 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-066 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-067 |
| - Uplink transport channel type | | E-DCH | | RBSE-068 |
| - Logical channel identity | | 1 | | RBSE-069 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-070 |
| - DDI | | 1 | | RBSE-071 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-072 |
| - RLC PDU size | | 96 bits | | RBSE-073 |
| - Include in scheduling info | | FALSE | | RBSE-074 |
| - MAC logical channel priority | | 1 | | RBSE-075 |
| - Downlink RLC logical channel info | | | | RBSE-076 |
| - Number of RLC logical channels | | 1 | | RBSE-077 |
| - Downlink transport channel type | | DCH | | RBSE-078 |
| - DL DCH Transport channel identity | | 10 | | RBSE-079 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-080 |
| - Logical channel identity | | 1 | | RBSE-081 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBSE-082 |
| - RB mapping info | | | | RBSE-083 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-084 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-085 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-086 |
| - Uplink transport channel type | | E-DCH | | RBSE-087 |
| - Logical channel identity | | 2 | | RBSE-088 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-089 |
| - DDI | | 2 | | RBSE-090 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-091 |
| - RLC PDU size | | 96 bits | | RBSE-092 |
| - Include in scheduling info | | FALSE | | RBSE-093 |
| - MAC logical channel priority | | 2 | | RBSE-094 |
| - Downlink RLC logical channel info | | | | RBSE-095 |
| - Number of RLC logical channels | | 1 | | RBSE-096 |
| - Downlink transport channel type | | DCH | | RBSE-097 |
| - DL DCH Transport channel identity | | 10 | | RBSE-098 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-099 |
| - Logical channel identity | | 2 | | RBSE-100 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBSE-101 |
| - RB mapping info | | | | RBSE-102 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-103 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-104 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-105 |
| - Uplink transport channel type | | E-DCH | | RBSE-106 |
| - Logical channel identity | | 3 | | RBSE-107 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-108 |
| - DDI | | 3 | | RBSE-109 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-110 |
| - RLC PDU size | | 96 bits | | RBSE-111 |
| - Include in scheduling info | | FALSE | | RBSE-112 |
| - MAC logical channel priority | | 3 | | RBSE-113 |
| - Downlink RLC logical channel info | | | | RBSE-114 |
| - Number of RLC logical channels | | 1 | | RBSE-115 |
| - Downlink transport channel type | | DCH | | RBSE-116 |
| - DL DCH Transport channel identity | | 10 | | RBSE-117 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-118 |
| - Logical channel identity | | 3 | | RBSE-119 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBSE-120 |
| - RB mapping info | | | | RBSE-121 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-122 |

| Information Element | Condition | Value/remark | Version | Index |
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| - RLC logical channel mapping indicator | | Not Present | | RBSE-123 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-124 |
| - Uplink transport channel type | | E-DCH | | RBSE-125 |
| - Logical channel identity | | 4 | | RBSE-126 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-127 |
| - DDI | | 4 | | RBSE-128 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-129 |
| - RLC PDU size | | 96 bits | | RBSE-130 |
| - Include in scheduling info | | FALSE | | RBSE-131 |
| - MAC logical channel priority | | 4 | | RBSE-132 |
| - Downlink RLC logical channel info | | | | RBSE-133 |
| - Number of RLC logical channels | | 1 | | RBSE-134 |
| - Downlink transport channel type | | DCH | | RBSE-135 |
| - DL DCH Transport channel identity | | 10 | | RBSE-136 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-137 |
| - Logical channel identity | | 4 | | RBSE-138 |
| Downlink counter synchronization info | A1, A2, A3 | Not Present | | RBSE-139 |
| PDCP ROHC target mode | | Not Present | Rel-5 | RBSE-140 |
| UL Transport channel information for all transport channels | | Not Present | | RBSE-141 |
| Deleted UL TrCH information | A1 | Not Present | | RBSE-142 |
| Deleted UL TrCH information | A2, A3 | | | RBSE-143 |
| - Uplink transport channel type | | DCH | | RBSE-144 |
| - UL transport channel identity | | 5 | | RBSE-145 |
| Added or Reconfigured TrCH information list | A1 | 1 TrCH added | | RBSE-146 |
| - Added or Reconfigured UL TrCH information | | 1 E-DCH added | | RBSE-147 |
| - Uplink transport channel type | | E-DCH | | RBSE-148 |
| - CHOICE UL parameters | | E-DCH | | RBSE-149 |
| - E-DCH Transmission Time Interval | | 10 ms | | RBSE-150 |
| - HARQ info for E-DCH | | | | RBSE-151 |
| - HARQ RV Configuration | | Rv0 | | RBSE-152 |
| - Added or reconfigured E-DCH | | | | RBSE-153 |
| MAC-d flow | | | | |
| - E-DCH MAC-d flow identity | | 2 | | RBSE-154 |
| - E-DCH MAC-d flow power offset | | 0 | | RBSE-155 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBSE-156 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBSE-157 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBSE-158 |
| Added or Reconfigured UL TrCH information list | A2, A3 | 1 TrCH added | | RBSE-159 |
| - Added or Reconfigured UL TrCH information | | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | | RBSE-160 |
| - Uplink transport channel type | | E-DCH | | RBSE-161 |
| - CHOICE UL parameters | | E-DCH | | RBSE-162 |
| - E-DCH Transmission Time Interval | | <u>(A2: 2ms), (A3 10ms)</u> | | RBSE-163 |
| - HARQ info for E-DCH | | | | RBSE-164 |
| - HARQ RV Configuration | | Rv0 | | RBSE-165 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBSE-166 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-167 |
| - E-DCH MAC-d flow power offset | | 0 | | RBSE-168 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBSE-169 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBSE-170 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBSE-171 |
| - Max MAC-e PDU contents size | | 114 bits | | RBSE-172 |
| - 2 ms non-scheduled transmission grant | | Not Present | | RBSE-173 |
| HARQ process allocation | | | | |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBSE-174 |
| - E-DCH MAC-d flow identity | | 2 | | RBSE-175 |
| - E-DCH MAC-d flow power offset | | 0 | | RBSE-176 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBSE-177 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBSE-178 |
| - CHOICE transmission grant type | | Scheduled grant info | | RBSE-179 |
| CHOICE mode | A1, A2, A3 | Not Present | R99 and Rel-4 | RBSE-180 |

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| | | | only | |
| DL Transport channel information common for all transport channels | A1, A3 | Not Present | | RBSE-181 |
| DL Transport channel information common for all transport channels | A2 | | | RBSE-182 |
| - SCCPCH TFCS | | Not Present | | RBSE-183 |
| - CHOICE mode | | FDD | | RBSE-184 |
| - CHOICE DL parameters | | Explicit | | RBSE-185 |
| - DL DCH TFCS | | | | RBSE-186 |
| - CHOICE TFCI Signalling | | Normal | | RBSE-187 |
| - TFCI Field 1 Information | | | | RBSE-188 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBSE-189 |
| - TFCS complete reconfigure | | | | RBSE-190 |
| - CHOICE CTFC Size | | 2 bit CTFC | | RBSE-191 |
| - CTFC information | | 2 TFCs | | RBSE-192 |
| - 2bit CTFC | | 0 | | RBSE-193 |
| - Power offset Information | | | | RBSE-194 |
| - CHOICE Gain Factors | | computedGainFactors | | RBSE-195 |
| - Reference TFC ID | | 0 | | RBSE-196 |
| - Power offset Pp-m | | Not Present | | RBSE-197 |
| - 2bit CTFC | | 1 | | RBSE-198 |
| - Power offset Information | | | | RBSE-199 |
| - CHOICE Gain Factors | | signalledGainFactors | | RBSE-200 |
| - CHOICE mode | | FDD | | RBSE-201 |
| - Gain factor β_c | | 15 | | RBSE-202 |
| - Gain factor β_d | | 15 | | RBSE-203 |
| - Reference TFC ID | | 0 | | RBSE-204 |
| - CHOICE mode | | FDD | | RBSE-205 |
| - Power offset Pp-m | | Not Present | | RBSE-206 |
| Deleted TrCH information list | A1, A2, A3 | Not Present | | RBSE-207 |
| Added or Reconfigured TrCH information list | A1, A3 | 1 TrCH added | | RBSE-208 |
| - Added or Reconfigured DL TrCH information | | HS-DSCH for DTCH added | | RBSE-209 |
| - Downlink transport channel type | | HS-DSCH | | RBSE-210 |
| - DL Transport channel identity | | Not Present | | RBSE-211 |
| - CHOICE DL parameters | | HS-DSCH | | RBSE-212 |
| - HARQ Info | | | | RBSE-213 |
| - Number of Processes | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-214 |
| - CHOICE <i>Memory Partitioning</i> | | Explicit | | RBSE-215 |
| - Memory size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". | | RBSE-216 |
| - Process Memory Size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | | RBSE-217 |
| - Additional memory sizes for MIMO | | Not Present | Rel-7 | RBSE-218 |
| - CHOICE DL MAC header type | | MAC-hs | Rel-7 | RBSE-219 |
| - Added or reconfigured MAC-d flow | | | | RBSE-220 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBSE-221 |
| - MAC-hs queue Id | | 0 | | RBSE-222 |
| - MAC-d Flow Identity | | 0 | | RBSE-223 |
| - T1 | | 50 | | RBSE-224 |
| - MAC-hs window size | | 16 | | RBSE-225 |
| - MAC-d PDU size Info | | | | RBSE-226 |
| - MAC-d PDU size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-227 |
| - MAC-d PDU size index | | 0 | | RBSE-228 |
| - MAC-hs queue to delete list | | Not present | | RBSE-229 |
| - DCH quality target | | Not present | | RBSE-230 |
| Added or Reconfigured DL TrCH information | A2 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | | RBSE-231 |
| - Downlink transport channel type | | DCH | | RBSE-232 |
| - DL Transport channel identity | | 10 | | RBSE-233 |
| - CHOICE DL parameters | | Explicit | | RBSE-234 |
| - TFS | | | | RBSE-235 |
| | | | | RBSE-236 |

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| - CHOICE Transport channel type | | Dedicated transport channels | | RBSE-237 |
| - Dynamic Transport format information | | | | RBSE-238 |
| - RLC Size | | 96 bits | | RBSE-239 |
| - Number of TBs and TTI List | | 2 | | RBSE-240 |
| - Transmission Time Interval | | Not Present | | RBSE-241 |
| - Number of Transport blocks | | 0 | | RBSE-242 |
| - Transmission Time Interval | | Not Present | | RBSE-243 |
| - Number of Transport blocks | | 1 | | RBSE-244 |
| - CHOICE Logical channel list | | ALL | | RBSE-245 |
| - Semi-static Transport Format information | | | | RBSE-246 |
| - Transmission time interval | | 40 | | RBSE-247 |
| - Type of channel coding | | Convolutional | | RBSE-248 |
| - Coding Rate | | 1/3 | | RBSE-249 |
| - Rate matching attribute | | 256 | | RBSE-250 |
| - CRC size | | 12 | | RBSE-251 |
| - DCH quality target | | | | RBSE-252 |
| - BLER Quality value | | -20 (-2.0) | | RBSE-253 |
| - Downlink transport channel type | | HS-DSCH | | RBSE-254 |
| - DL Transport channel identity | | Not Present | | RBSE-255 |
| - CHOICE DL parameters | | HS-DSCH | | RBSE-256 |
| - HARQ Info | | | | RBSE-257 |
| - Number of Processes | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-258 |
| - CHOICE <i>Memory Partitioning</i> | | Explicit | | RBSE-259 |
| - Memory size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". | | RBSE-260 |
| - Process Memory Size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | | RBSE-261 |
| - Additional memory sizes for MIMO | | Not Present | Rel-7 | RBSE-262 |
| - CHOICE DL MAC header type | | MAC-hs | Rel-7 | RBSE-263 |
| - Added or reconfigured MAC-d flow | | | | RBSE-264 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBSE-265 |
| - MAC-hs queue Id | | 0 | | RBSE-266 |
| - MAC-d Flow Identity | | 0 | | RBSE-267 |
| - T1 | | 50 | | RBSE-268 |
| - MAC-hs window size | | 16 | | RBSE-269 |
| - MAC-d PDU size Info | | | | RBSE-270 |
| - MAC-d PDU size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-271 |
| - MAC-d PDU size index | | 0 | | RBSE-272 |
| - MAC-hs queue to delete list | | Not present | | RBSE-273 |
| - DCH quality target | | Not present | | RBSE-274 |
| Frequency info | A1, A2, A3 | Not present | | RBSE-275 |
| Multi-frequency Info | | Not present | Rel-7 | RBSE-276 |
| DTX-DRX timing information | | Not present | Rel-7 | RBSE-277 |
| DRX Information | | Not present | Rel-7 | RBSE-278 |
| HS-SCCH less Information | | Not present | Rel-7 | RBSE-279 |
| MIMO parameters | | Not present | Rel-7 | RBSE-280 |
| Maximum allowed UL TX power | | 33dBm | | RBSE-281 |
| CHOICE channel requirement | | Uplink DPCH info | Rel-5 and earlier | RBSE-282 |
| Uplink DPCH info | | | Rel-6 | RBSE-283 |
| - Uplink DPCH power control info | | | | RBSE-284 |
| - DPCH power offset | | -40 (-80dB) | | RBSE-285 |
| - PC Preamble | | 1 frame | | RBSE-286 |
| - SRB delay | | 7 frames | | RBSE-287 |
| - Power Control Algorithm | | Algorithm1 | | RBSE-288 |
| - TPC step size | | 0 (1dB) | | RBSE-289 |
| - Δ_{ACK} | | 3 | | RBSE-290 |
| - Δ_{NACK} | | 3 | | RBSE-291 |
| - Ack-Nack repetition factor | | 1 | | RBSE-292 |
| - HARQ_preamble_mode | | 0 | | RBSE-293 |
| - Scrambling code type | | Long | | RBSE-294 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBSE-295 |

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| - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit | A1 | Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | | RBSE-296 RBSE-297 RBSE-298 RBSE-299 RBSE-300 |
| - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit | A2, A3 | 0 Not present FALSE Not present Not present | | RBSE-301 RBSE-302 RBSE-303 RBSE-304 RBSE-305 |
| E-DCH info - MAC-es/e reset indicator - E-DPCCH info - E-DPCCH/DPCCH power offset - Happy bit delay condition - E-TFCI boost info - E-TFCI BetaED SwitchE-DPDCH power interpolation | A1, A2, A3 | TRUE 0 100 ms Not present Not present | Rel-6 Rel-7 Rel-7 | RBSE-306 RBSE-307 RBSE-308 RBSE-309 RBSE-310 RBSE-311 RBSE-312 |
| - E-DPDCH info - E-TFCI table index - E-DCH minimum set E-TFCI - Reference E-TFCIs - Reference E-TFCI - Reference E-TFCI PO - Maximum channelisation codes - PLnon-max - Scheduling Information Configuration - Periodicity for Scheduling Info – no grant - Periodicity for Scheduling Info – grant - Power Offset for Scheduling Info - 3-Index-Step Threshold - 2-Index-Step Threshold | A1, A3 | 0 9 1 E-TFCI 11 4 2sf4 0.84 Not present Not present 0 Not present Not present | | RBSE-313 RBSE-314 RBSE-315 RBSE-316 RBSE-317 RBSE-318 RBSE-319 RBSE-320 RBSE-321 RBSE-322 RBSE-323 RBSE-324 RBSE-325 RBSE-326 |
| - E-DPDCH info - E-TFCI table index - E-DCH minimum set E-TFCI - Reference E-TFCIs - Reference E-TFCI - Reference E-TFCI PO - Reference E-TFCI - Reference E-TFCI PO - Maximum channelisation codes - PLnon-max - Scheduling Information Configuration - Periodicity for Scheduling Info – no grant - Periodicity for Scheduling Info – grant - Power Offset for Scheduling Info - 3-Index-Step Threshold - 2-Index-Step Threshold | A2 | 0 9 2 E-TFCI 11 4 83 16 2sf2and2sf4 0.84 Not present Not present 0 Not present Not present | | RBSE-327 RBSE-328 RBSE-329 RBSE-330 RBSE-331 RBSE-332 RBSE-333 RBSE-334 RBSE-335 RBSE-336 RBSE-337 RBSE-338 RBSE-339 RBSE-340 RBSE-341 RBSE-342 |
| - Scheduled Transmission configuration - 2ms scheduled transmission grant HARQ process allocation - Serving Grant | A1, A2, A3 | Not present Not present | | RBSE-343 RBSE-344 RBSE-345 |
| - UL 16QAM settings | | Not present | Rel-7 | RBSE-346 |
| CHOICE Mode | | FDD | R99 and Rel-4 only | RBSE-347 |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only | RBSE-348 |
| Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code | | FDD Not present 2 3 | | RBSE-349 RBSE-350 RBSE-351 RBSE-352 RBSE-353 RBSE-354 RBSE-355 |

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| - Measurement Feedback Info - CHOICE mode - POhdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI} - CHOICE mode - Downlink 64QAM configured | | FDD 6 dB 2 ms 1 5 (corresponds to 0dB in relative power offset) FDD Not Present | Rel-7 | RBSE-356 RBSE-357 RBSE-358 RBSE-359 RBSE-360 RBSE-361 RBSE-362 RBSE-363 |
| Downlink information common for all radio links | A1, A3 | Not Present | | RBSE-364 |
| Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset PPilot-DPCH - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - Number of bits for Pilot bits - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator - Post-verification period | A2 | Maintain Not Present 0 (single) FDD 0 Not Present 256 Fixed FALSE 256 8 FDD Not Present None Not Present Not Present Not Present | | RBSE-365 RBSE-366 RBSE-367 RBSE-368 RBSE-369 RBSE-370 RBSE-371 RBSE-372 RBSE-373 RBSE-374 RBSE-375 RBSE-376 RBSE-377 RBSE-378 RBSE-379 RBSE-380 RBSE-381 RBSE-382 RBSE-383 RBSE-384 |
| Downlink information for each radio link list | A1, A2, A3 | | | RBSE-385 |
| - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code | | FDD Ref. to clause 6.1 "Default settings (FDD)" Not Present Not Present TRUE TRUE FDD Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present Not Present | R99 and Rel-4 only R99 and Rel-4 only | RBSE-386 RBSE-387 RBSE-388 RBSE-389 RBSE-390 RBSE-391 RBSE-392 RBSE-393 RBSE-394 RBSE-395 RBSE-396 RBSE-397 RBSE-398 RBSE-399 RBSE-400 |
| - Spreading factor - Code number | A1 | Reference to clause 6.10 Parameter Set 96 | | RBSE-401 RBSE-402 |
| - Spreading factor - Code number | A2, A3 | 256 192 | | RBSE-403 RBSE-404 |
| - Scrambling code change - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information | A1, A2, A3 | No code change 0 Not Present Not Present 14 | R99 and Rel-4 only Rel-6 Rel-6 | RBSE-405 RBSE-406 RBSE-407 RBSE-408 RBSE-409 RBSE-410 RBSE-411 RBSE-412 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|-----------------------------------|--|
| - DL Scrambling code - Channelisation code - Signature sequence - CHOICE E-RGCH Information - SCCPCH information for FACH | | Not Present (default is primary) 6 1 Not Present Not Present | Rel-6 R99 and Rel-4 only | RBSE-413 RBSE-414 RBSE-415 RBSE-416 RBSE-417 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBSE-418 |

| Condition | Explanation |
|-----------|--|
| A1 | Not using E-DCH 4codes except sub-test 5 in TS 34.121-1 [2] Table C.11.1.3 |
| A2 | Using E-DCH 4codes |
| A3 | Sub-test 5 in TS 34.121-1 [2] Table C.11.1.3 |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA with F-DPCH)

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| Message Type | | Rel-6 | RBSF-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSF-002 |
| Integrity check info | | | RBSF-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSF-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSF-005 |
| Integrity protection mode info | Not Present | | RBSF-006 |
| Ciphering mode info | Not Present | | RBSF-007 |
| Activation time | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$ | | RBSF-008 |
| New U-RNTI | Not Present | Rel-6 | RBSF-009 |
| New C-RNTI | Not Present | Rel-6 | RBSF-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-6 | RBSF-011 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSF-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSF-013 |
| RRC State indicator | CELL_DCH | Rel-6 | RBSF-014 |
| UTRAN DRX cycle length coefficient | Not Present | Rel-6 | RBSF-015 |
| CN information info | Not Present | | RBSF-016 |
| URA identity | Not Present | | RBSF-017 |
| CHOICE Specification mode | Complete specification | Rel-6 | RBSF-018 |
| - Signalling RB information to setup | Not Present | | RBSF-019 |
| - RAB information for setup | | | RBSF-020 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSF-021 |
| - RAB identity | 0000 0110B | | RBSF-022 |
| - CN domain identity | PS domain | | RBSF-023 |
| - NAS Synchronization Indicator | Not Present | | RBSF-024 |
| - Re-establishment timer | useT315 | | RBSF-025 |
| - RB information to setup | | | RBSF-026 |
| - RB identity | 25 | | RBSF-027 |
| - PDCP info | Not Present | | RBSF-028 |
| - CHOICE RLC info type | RLC info | | RBSF-029 |
| - CHOICE Uplink RLC mode | Not present | | RBSF-030 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSF-031 |
| - DL UM RLC LI size | Selected with DL UM RLC data size | Rel-5 | RBSF-032 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSF-033 |
| - RB mapping info | | | RBSF-034 |
| - Information for each multiplexing option | 1 RBMuxOption | | RBSF-035 |
| - RLC logical channel mapping indicator | Not Present | | RBSF-036 |
| - Number of uplink RLC logical channels | 1 | | RBSF-037 |
| - Downlink RLC logical channel info | | | RBSF-038 |
| - Number of downlink RLC logical channels | 1 | | RBSF-039 |
| - Downlink transport channel type | HS-DSCH | | RBSF-040 |
| - DL DCH Transport channel identity | Not present | | RBSF-041 |
| - DL DSCH Transport channel identity | Not present | | RBSF-042 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-043 |

| Information Element | Value/remark | Version | Index |
|--|-----------------------------------|---------|----------|
| - DL HS-DSCH MAC-d flow identity | 1 | | RBSF-044 |
| - Logical channel identity | Not Present | | RBSF-045 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSF-046 |
| RB information to be affected | | Rel-6 | RBSF-047 |
| - RB identity | 1 (UM DCCH for RRC) | | RBSF-048 |
| - RB mapping info | | | RBSF-049 |
| - Information for each multiplexing option | 1 RBMuxOption | | RBSF-050 |
| - RLC logical channel mapping indicator | Not Present | | RBSF-051 |
| - Number of uplink RLC logical channels | 1 | | RBSF-052 |
| - Uplink transport channel type | DCH | | RBSF-053 |
| - UL Transport channel identity | 5 | | RBSF-054 |
| - Logical channel identity | 1 | | RBSF-055 |
| - CHOICE RLC size list | Configured | | RBSF-056 |
| - MAC logical channel priority | 1 | | RBSF-057 |
| - Downlink RLC logical channel info | | | RBSF-058 |
| - Number of RLC logical channels | 1 | | RBSF-059 |
| - Downlink transport channel type | HS-DSCH | | RBSF-060 |
| - DL DCH Transport channel identity | Not present | | RBSF-061 |
| - DL DSCH Transport channel identity | Not present | | RBSF-062 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-063 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSF-064 |
| - Logical channel identity | 1 | | RBSF-065 |
| - RB identity | 2 (AM DCCH for RRC) | | RBSF-066 |
| - RB mapping info | | | RBSF-067 |
| - Information for each multiplexing option | 1 RBMuxOption | | RBSF-068 |
| - RLC logical channel mapping indicator | Not Present | | RBSF-069 |
| - Number of uplink RLC logical channels | 1 | | RBSF-070 |
| - Uplink transport channel type | DCH | | RBSF-071 |
| - UL Transport channel identity | 5 | | RBSF-072 |
| - Logical channel identity | 2 | | RBSF-073 |
| - CHOICE RLC size list | Configured | | RBSF-074 |
| - MAC logical channel priority | 2 | | RBSF-075 |
| - Downlink RLC logical channel info | | | RBSF-076 |
| - Number of RLC logical channels | 1 | | RBSF-077 |
| - Downlink transport channel type | HS-DSCH | | RBSF-078 |
| - DL DCH Transport channel identity | Not Present | | RBSF-079 |
| - DL DSCH Transport channel identity | Not Present | | RBSF-080 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-081 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSF-082 |
| - Logical channel identity | 2 | | RBSF-083 |
| - RB identity | 3 (AM DCCH for NAS High Priority) | | RBSF-084 |
| - RB mapping info | | | RBSF-085 |
| - Information for each multiplexing option | 1 RBMuxOption | | RBSF-086 |
| - RLC logical channel mapping indicator | Not Present | | RBSF-087 |
| - Number of uplink RLC logical channels | 1 | | RBSF-088 |
| - Uplink transport channel type | DCH | | RBSF-089 |
| - UL Transport channel identity | 5 | | RBSF-090 |
| - Logical channel identity | 3 | | RBSF-091 |
| - CHOICE RLC size list | Configured | | RBSF-092 |
| - MAC logical channel priority | 3 | | RBSF-093 |
| - Downlink RLC logical channel info | | | RBSF-094 |
| - Number of RLC logical channels | 1 | | RBSF-095 |
| - Downlink transport channel type | HS-DSCH | | RBSF-096 |
| - DL DCH Transport channel identity | Not Present | | RBSF-097 |
| - DL DSCH Transport channel identity | Not Present | | RBSF-098 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-099 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSF-100 |
| - Logical channel identity | 3 | | RBSF-101 |
| - RB identity | 4 (AM DCCH for NAS Low Priority) | | RBSF-102 |
| - RB mapping info | | | RBSF-103 |
| - Information for each multiplexing option | 1 RBMuxOption | | RBSF-104 |
| - RLC logical channel mapping indicator | Not Present | | RBSF-105 |
| - Number of uplink RLC logical channels | 1 | | RBSF-106 |
| - Uplink transport channel type | DCH | | RBSF-107 |
| - UL Transport channel identity | 5 | | RBSF-108 |
| - Logical channel identity | 4 | | RBSF-109 |
| - CHOICE RLC size list | Configured | | RBSF-110 |

| Information Element | Value/remark | Version | Index |
|---|------------------------------------|---------|----------|
| - MAC logical channel priority | 4 | | RBSF-111 |
| - Downlink RLC logical channel info | | | RBSF-112 |
| - Number of RLC logical channels | 1 | | RBSF-113 |
| - Downlink transport channel type | HS-DSCH | | RBSF-114 |
| - DL DCH Transport channel identity | Not Present | | RBSF-115 |
| - DL DSCH Transport channel identity | Not Present | | RBSF-116 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-117 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSF-118 |
| - Logical channel identity | 4 | | RBSF-119 |
| Downlink counter synchronization info | Not Present | Rel-6 | RBSF-120 |
| PDCP ROHC target mode | Not Present | Rel-6 | RBSF-121 |
| UL Transport channel information for all transport channels | | Rel-6 | RBSF-122 |
| - PRACH TFCS | Not Present | | RBSF-123 |
| - CHOICE Mode | FDD | | RBSF-124 |
| - TFC subset | Not Present | | RBSF-125 |
| - UL DCH TFCS | | | RBSF-126 |
| - CHOICE TFCI signalling | Normal | | RBSF-127 |
| - TFCI Field 1 information | | | RBSF-128 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSF-129 |
| - TFCS complete reconfiguration information | | | RBSF-130 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSF-131 |
| - CTFC information | 2 TFCs | | RBSF-132 |
| - 2bit CTFC | 0 | | RBSF-133 |
| - Power offset Information | | | RBSF-134 |
| - CHOICE Gain Factors | computedGainFactors | | RBSF-135 |
| - Reference TFC ID | 0 | | RBSF-136 |
| - CHOICE mode | FDD | | RBSF-137 |
| - Power offset Pp-m | Not Present | | RBSF-138 |
| - 2bit CTFC | 1 | | RBSF-139 |
| - Power offset Information | | | RBSF-140 |
| - CHOICE Gain Factors | signalledGainFactors | | RBSF-141 |
| - CHOICE mode | FDD | | RBSF-142 |
| - Gain factor β_c | 15 | | RBSF-143 |
| - Gain factor β_d | 15 | | RBSF-144 |
| - Reference TFC ID | 0 | | RBSF-145 |
| - CHOICE mode | FDD | | RBSF-146 |
| - Power offset Pp-m | Not Present | | RBSF-147 |
| Deleted UL TrCH information | Not Present | Rel-6 | RBSF-148 |
| Added or Reconfigured UL TrCH information | | Rel-6 | RBSF-149 |
| - Added or Reconfigured UL TrCH information | | | RBSF-150 |
| - Uplink transport channel type | DCH | | RBSF-151 |
| - UL Transport channel identity | 5 | | RBSF-152 |
| - TFS | | | RBSF-153 |
| - CHOICE Transport channel type | Dedicated transport channels | | RBSF-154 |
| - Dynamic Transport Format Information | | | RBSF-155 |
| - RLC size | 96 bits | | RBSF-156 |
| - Number of TBs and TTI List | 2 | | RBSF-157 |
| - Transmission Time Interval | Not Present | | RBSF-158 |
| - Number of Transport blocks | 0 | | RBSF-159 |
| - Transmission Time Interval | Not Present | | RBSF-160 |
| - Number of Transport blocks | 1 | | RBSF-161 |
| - CHOICE Logical channel List | ALL | | RBSF-162 |
| - Semi-static Transport Format Information | | | RBSF-163 |
| - Transmission time interval | 40 | | RBSF-164 |
| - Type of channel coding | Convolutional | | RBSF-165 |
| - Coding Rate | 1/3 | | RBSF-166 |
| - Rate matching attribute | 256 | | RBSF-167 |
| - CRC size | 12 | | RBSF-168 |
| DL Transport channel information common for all transport channel | Not Present | Rel-6 | RBSF-169 |
| Deleted DL TrCH information | | Rel-6 | RBSF-170 |
| - Downlink transport channel type | DCH | | RBSF-171 |
| - DL Transport channel identity | 10 | | RBSF-172 |
| Added or Reconfigured DL TrCH information | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-6 | RBSF-173 |
| - Downlink transport channel type | HS-DSCH | | RBSF-174 |
| - DL Transport channel identity | Not Present | | RBSF-175 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - CHOICE DL parameters | HS-DSCH | | RBSF-176 |
| - HARQ Info | | | RBSF-177 |
| - Number of Processes | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSF-178 |
| - CHOICE Memory Partitioning | Explicit | | RBSF-179 |
| - Memory size | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". | | RBSF-180 |
| - Process Memory Size | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | | RBSF-181 |
| - Additional memory sizes for MIMO | Not Present | Rel-7 | RBSF-182 |
| - CHOICE DL MAC header type | MAC-hs | Rel-7 | RBSF-183 |
| - Added or reconfigured MAC-d flow | | | RBSF-184 |
| - MAC-hs queue to add or reconfigure list | (two queues) | | RBSF-185 |
| - MAC-hs queue Id | 0 (for DCCH) | | RBSF-186 |
| - MAC-d Flow Identity | 0 | | RBSF-187 |
| - T1 | 50 | | RBSF-188 |
| - MAC-hs window size | 16 | | RBSF-189 |
| - MAC-d PDU size Info | | | RBSF-190 |
| - MAC-d PDU size | 100 | | RBSF-191 |
| - MAC-d PDU size index | 0 | | RBSF-192 |
| - MAC-hs queue Id | 1 (for DTCH) | | RBSF-193 |
| - MAC-d Flow Identity | 1 | | RBSF-194 |
| - T1 | 50 | | RBSF-195 |
| - MAC-hs window size | 16 | | RBSF-196 |
| - MAC-d PDU size Info | | | RBSF-197 |
| - MAC-d PDU size | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSF-198 |
| - MAC-d PDU size index | 0 | | RBSF-199 |
| - MAC-hs queue to delete list | Not present | | RBSF-200 |
| - DCH quality target | Not present | | RBSF-201 |
| Frequency info | Not present | | RBSF-202 |
| Multi-frequency Info | Not present | Rel-7 | RBSF-203 |
| DTX-DRX timing information | Not present | Rel-7 | RBSF-204 |
| DRX Information | Not present | Rel-7 | RBSF-205 |
| HS-SCCH less Information | Not present | Rel-7 | RBSF-206 |
| MIMO parameters | Not present | Rel-7 | RBSF-207 |
| Maximum allowed UL TX power | 33dBm | | RBSF-208 |
| Uplink DPCH info | | Rel-6 | RBSF-209 |
| - Uplink DPCH power control info | | | RBSF-210 |
| - DPCCCH power offset | -40 (-80dB) | | RBSF-211 |
| - PC Preamble | 1 frame | | RBSF-212 |
| - SRB delay | 7 frames | | RBSF-213 |
| - Power Control Algorithm | Algorithm1 | | RBSF-214 |
| - TPC step size | 0 (1dB) | | RBSF-215 |
| - Δ_{ACK} | 3 | | RBSF-216 |
| - Δ_{NACK} | 3 | | RBSF-217 |
| - Ack-Nack repetition factor | 1 | | RBSF-218 |
| - HARQ_preamble_mode | 0 | | RBSF-219 |
| - CHOICE mode | FDD | | RBSF-220 |
| - Scrambling code type | Long | | RBSF-221 |
| - Scrambling code number | 0 (0 to 16777215) | | RBSF-222 |
| - Number of DPDCH | Not Present (1) | | RBSF-223 |
| - spreading factor | 256 | | RBSF-224 |
| - TFCI existence | TRUE | | RBSF-225 |
| - Number of FBI bit | Not Present(0) | | RBSF-226 |
| - Puncturing Limit | 1 | | RBSF-227 |
| E-DCH info | Not Present | Rel-6 | RBSF-228 |
| Downlink HS-PDSCH Information | | Rel-6 | RBSF-229 |
| - HS-SCCH Info | | | RBSF-230 |
| - CHOICE mode | FDD | | RBSF-231 |
| - DL Scrambling Code | Not present | | RBSF-232 |
| - HS-SCCH Channelisation Code Information | | | RBSF-233 |
| - HS-SCCH Channelisation Code | 2 | | RBSF-234 |
| - Measurement Feedback Info | | | RBSF-235 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - CHOICE mode | FDD | | RBSF-236 |
| - POHsdSch | 6 dB | | RBSF-237 |
| - CQI Feedback cycle, k | 2 ms | | RBSF-238 |
| - CQI repetition factor | 1 | | RBSF-239 |
| - Δ_{CQI} | 5 (corresponds to 0dB in relative power offset) | | RBSF-240 |
| - CHOICE mode | FDD | | RBSF-241 |
| - Downlink 64QAM configured | Not Present | Rel-7 | RBSF-242 |
| Downlink information common for all radio links | | Rel-6 | RBSF-243 |
| - Downlink F-DPCH info common for all RL | | | RBSF-244 |
| - Timing Indication | Maintain | | RBSF-245 |
| - Timing maintained Synchronization indicator | FALSE | | RBSF-246 |
| - Downlink F-DPCH power control information | | | RBSF-247 |
| - DPC mode | 0 (single) | | RBSF-248 |
| - TPC command error rate target | 0.04 | | RBSF-249 |
| - CHOICE mode | FDD | | RBSF-250 |
| - DPCH compressed mode info | Not Present | | RBSF-251 |
| - TX Diversity mode | None | | RBSF-252 |
| - Default DPCH Offset Value | Not Present | | RBSF-253 |
| - MAC-hs reset indicator | Not Present | | RBSF-254 |
| Downlink information for each radio link list | | Rel-6 | RBSF-255 |
| - Downlink information for each radio link | | | RBSF-256 |
| - Choice mode | FDD | | RBSF-257 |
| - Primary CPICH info | | | RBSF-258 |
| - Primary scrambling code | Ref. to clause 6.1 "Default settings (FDD)" | | RBSF-259 |
| - Serving HS-DSCH radio link indicator | TRUE | | RBSF-260 |
| - Downlink DPCH info for each RL | Not Present | | RBSF-261 |
| - Downlink F-DPCH info for each RL | | | RBSF-262 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSF-263 |
| - F-DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSF-264 |
| - Secondary CPICH info | Not Present | | RBSF-265 |
| - Secondary scrambling code | Not Present | | RBSF-266 |
| - Code number | 6 | | RBSF-267 |
| - TPC combination index | 0 | | RBSF-268 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSF-269 |

Contents of RADIO BEARER SETUP message: AM or UM (DC-HSDPA)

| Information Element | Value/remark | Version | Index |
|------------------------------------|--|---------|----------|
| Message Type | | | RBSD-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSD-002 |
| Integrity check info | | | RBSD-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSD-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSD-005 |
| Integrity protection mode info | Not Present | | RBSD-006 |
| Ciphering mode info | Not Present | | RBSD-007 |
| Activation time | Not Present | | RBSD-008 |
| New U-RNTI | Not Present | | RBSD-009 |
| New C-RNTI | Not Present | | RBSD-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSD-011 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSD-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSD-013 |
| RRC State indicator | CELL_DCH | | RBSD-014 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSD-015 |
| CN information info | Not Present | | RBSD-016 |
| URA identity | Not Present | | RBSD-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSD-018 |
| Signalling RB information to setup | Not Present | | RBSD-019 |
| RAB information for setup list | | | RBSD-020 |
| - RAB information for setup | | | RBSD-021 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSD-022 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - RAB identity | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSD-023 |
| - CN domain identity | PS domain | | RBSD-024 |
| - NAS Synchronization Indicator | Not Present | | RBSD-025 |
| - Re-establishment timer | UseT315 | | RBSD-026 |
| - RB information to setup | | | RBSD-027 |
| - RB identity | 25 | | RBSD-028 |
| - PDCP info | Not Present | | RBSD-029 |
| - CHOICE RLC info type | RLC info | | RBSD-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBSD-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSD-032 |
| - DL UM RLC LI size | Selected with DL UM RLC data size | Rel-5 | RBSD-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSD-034 |
| - RB mapping info | | | RBSD-035 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBSD-036 |
| - RLC logical channel mapping indicator | Not Present | | RBSD-037 |
| - Downlink RLC logical channel info | | | RBSD-038 |
| - Number of downlink RLC logical channels | 1 | | RBSD-039 |
| - Downlink transport channel type | HS-DSCH | | RBSD-040 |
| - DL DCH Transport channel identity | Not Present | | RBSD-041 |
| - DL DSCH Transport channel identity | Not Present | | RBSD-042 |
| - CHOICE DL MAC header type | MAC-ehs | Rel-7 | RBSD-043 |
| - DL HS-DSCH MAC-ehs Queue Id | 0 | | RBSD-044 |
| - Logical channel identity | 1 | | RBSD-045 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSD-046 |
| RB information to be affected list | Not Present | | RBSD-047 |
| Downlink counter synchronization info | Not Present | | RBSD-048 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSD-049 |
| UL Transport channel information for all transport channels | | | RBSD-050 |
| - PRACH TFCS | Not Present | | RBSD-051 |
| - CHOICE mode | FDD | | RBSD-052 |
| - TFC subset | Not Present | | RBSD-053 |
| - UL DCH TFCS | | | RBSD-054 |
| - CHOICE TFCI signalling | Normal | | RBSD-055 |
| - TFCI Field 1 information | | | RBSD-056 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSD-057 |
| - TFCS complete reconfigure information | | | RBSD-058 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSD-059 |
| - CTFC information | 4 TFCS | | RBSD-060 |
| - CTFC | Reference to clause TS 34.121 clause C.2.1 Parameter Set | | RBSD-061 |
| - Power offset information | | | RBSD-062 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBSD-063 |
| - Gain factor β_c | 8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSD-064 |
| - Gain factor β_d | 15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSD-065 |
| - Reference TFC ID | 0 | | RBSD-066 |
| - CHOICE mode | FDD | | RBSD-067 |
| - Power offset P _{p-m} | Not Present | | RBSD-068 |
| Deleted UL TrCH information list | Not Present | | RBSD-069 |
| Added or Reconfigured TrCH information list | Not Present | | RBSD-070 |
| CHOICE mode | Not Present | | RBSD-071 |
| DL Transport channel information common for all transport channel | | | RBSD-072 |
| - SCCPCH TFCS | Not Present | | RBSD-073 |
| - CHOICE mode | FDD | | RBSD-074 |
| - CHOICE DL parameters | Explicit | | RBSD-075 |
| - DL DCH TFCS | | | RBSD-076 |
| - CHOICE TFCI Signalling | Normal | | RBSD-077 |
| - TFCI Field 1 Information | | | RBSD-078 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSD-079 |

| Information Element | Value/remark | Version | Index |
|--|--|-------------------|----------|
| - TFCS complete reconfigure | 2 bit CTFC | | RBSD-080 |
| - CHOICE CTFC Size | 4 TFCs | | RBSD-081 |
| - CTFC information | Reference to clause TS 34.121 clause C.3.1 | | RBSD-082 |
| - CTFC | Parameter Set | | RBSD-083 |
| - Power offset information | Not Present | | RBSD-084 |
| Deleted DL TrCH information | Not Present | | RBSD-085 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSD-086 |
| - Added or Reconfigured DL TrCH information | (HS-DSCH for DTCH) | | RBSD-087 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSD-088 |
| - DL Transport channel identity | Not Present | | RBSD-089 |
| - CHOICE DL parameters | HS-DSCH | | RBSD-090 |
| - HARQ Info | | Rel-5 | RBSD-091 |
| - Number of Processes | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSD-092 |
| - CHOICE Memory Partitioning | Explicit | | RBSD-093 |
| - Memory size | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". | | RBSD-094 |
| - Process Memory Size | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | | RBSD-095 |
| - Additional memory sizes for MIMO | Not Present | Rel-7 | RBSD-096 |
| - CHOICE DL MAC header type | MAC-ehs | Rel-7 | RBSD-097 |
| - Added or reconfigured MAC-ehs reordering queue | | | RBSD-098 |
| - MAC-ehs queue to add or reconfigure list | (one queue) | Rel-7 | RBSD-099 |
| - MAC-ehs queue Id | 0 | | RBSD-100 |
| - T1 | 50 | | RBSD-101 |
| - Treset | Not Present | | RBSD-102 |
| - MAC-ehs window size | 32 | | RBSD-103 |
| - DCH quality target | Not present | | RBSD-108 |
| Frequency info | Not Present | | RBSD-109 |
| Multi-frequency Info | Not present | Rel-7 | RBSD-110 |
| DTX-DRX timing information | Not present | Rel-7 | RBSD-111 |
| DRX Information | Not present | Rel-7 | RBSD-112 |
| HS-SCCH less Information | Not present | Rel-7 | RBSD-113 |
| MIMO parameters | Not present | Rel-7 | RBSD-114 |
| Maximum allowed UL TX power | 33dBm | | RBSD-115 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSD-116 |
| Uplink DPCH info | | Rel-6 | RBSD-117 |
| - Uplink DPCH power control info | | | RBSD-118 |
| - CHOICE mode | FDD | | RBSD-119 |
| - DPCCH power offset | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | | RBSD-120 |
| - PC Preamble | 1 frame | | RBSD-121 |
| - SRB delay | 7 frames | | RBSD-122 |
| - Power Control Algorithm | Algorithm1 | | RBSD-123 |
| - TPC step size | 0 (1dB) | | RBSD-124 |
| - Δ_{ACK} | 3 | Rel-5 | RBSD-125 |
| - Δ_{NACK} | 3 | Rel-5 | RBSD-126 |
| - Ack-Nack repetition factor | 1 | Rel-5 | RBSD-127 |
| - CHOICE mode | FDD | | RBSD-128 |
| - Scrambling code type | Long | | RBSD-129 |
| - Scrambling code number | 0 (0 to 16777215) | | RBSD-130 |
| - Number of DPDCH | Not Present (1) | | RBSD-131 |
| - spreading factor | 64 | | RBSD-132 |
| - TFCI existence | TRUE | | RBSD-133 |
| - Number of FBI bit | Not Present(0) | | RBSD-134 |
| - Puncturing Limit | 1 | | RBSD-135 |
| E-DCH Info | Not Present | Rel-6 | RBSD-136 |
| Downlink HS-PDSCH Information | | | RBSD-137 |
| - HS-SCCH Info | | | RBSD-138 |
| - CHOICE mode | FDD | | RBSD-139 |
| - DL Scrambling Code | | | RBSD-140 |
| - HS-SCCH Channelisation Code Information | | | RBSD-141 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|-----------|
| - HS-SCCH Channelisation Code | 2 | | RBSD-142 |
| - HS-SCCH Channelisation Code | 3 | | RBSD-143 |
| - Measurement Feedback Info | | | RBSD-146 |
| - CHOICE mode | FDD | | RBSD-147 |
| - Measurement Power Offset | 6 dB | Rel-5 | RBSD-148 |
| - CQI Feedback cycle, k | 2 ms | Rel-5 | RBSD-149 |
| - CQI repetition factor | 1 | Rel-5 | RBSD-150 |
| - Δ_{CQI} | 5 (corresponds to 0dB in relative power offset) | Rel-5 | RBSD-151 |
| - CHOICE mode | FDD | | RBSD-152 |
| - Downlink 64QAM configured | Not Present | Rel-7 | RBSD-153 |
| - HS-DSCH TB size table | Not Present | Rel-7 | RBSD-153b |
| Downlink information common for all radio links | Not Present | | RBSD-154 |
| Downlink information per radio link list | | | RBSD-155 |
| - Downlink information for each radio link | | | RBSD-156 |
| - CHOICE mode | FDD | | RBSD-157 |
| - Primary CPICH info | | | RBSD-158 |
| - Primary scrambling code | Reference to clause 6.1 "Default settings (FDD)" | | RBSD-159 |
| - Serving HS-DSCH radio link indicator | TRUE | Rel-5 | RBSD-160 |
| - Downlink DPCH info for each RL | | | RBSD-161 |
| - CHOICE mode | FDD | | RBSD-162 |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used | | RBSD-163 |
| - DPCH frame offset | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSD-164 |
| - Secondary CPICH info | Not Present | | RBSD-165 |
| - DL channelisation code | | | RBSD-166 |
| - Secondary scrambling code | Not present | | RBSD-167 |
| - Spreading factor | 128 | | RBSD-168 |
| - Code number | 96 | | RBSD-169 |
| - Scrambling code change | No change | | RBSD-170 |
| - TPC combination index | 0 | | RBSD-171 |
| - Closed loop timing adjustment mode | Not Present | | RBSD-172 |
| Downlink secondary cell info FDD | | Rel-8 | RBSD-173 |
| - CHOICE Configuration info | New configuration | | RBSD-174 |
| - New H-RNTI | '1010 1010 1010 1010' | | RBSD-175 |
| - Downlink 64QAM configured | Not Present | | RBSD-176 |
| - HS-DSCH TB size table | Not Present | | RBSD-177 |
| - Primary CPICH info | | | RBSD-178 |
| - Primary scrambling code | Ref. to the Default setting in clause 6.1 (FDD) | | RBSD-179 |
| - DL Scrambling Code | Not Present | | RBSD-180 |
| - HS-SCCH Channelisation Code Information | | | RBSD-181 |
| - HS-SCCH Channelisation Code | 2 | | RBSD-182 |
| - HS-SCCH Channelisation Code | 3 | | RBSD-183 |
| - Measurement Power Offset | 6 dB | | RBSD-184 |
| - UARFCN downlink (Nd) | Reference to clause 5.1 Test frequencies | | RBSD-185 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSD-186 |

Contents of RADIO BEARER SETUP message: AM or UM (DC-HSUPA)

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|--------------------|----------|
| Message Type | | | | RBSE-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBSE-002 |
| Integrity check info | | | | RBSE-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSE-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBSE-005 |
| Integrity protection mode info | | Not Present | | RBSE-006 |
| Ciphering mode info | | Not Present | | RBSE-007 |
| New U-RNTI | | Not Present | | RBSE-008 |
| New C-RNTI | | Not Present | | RBSE-009 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBSE-010 |
| New H-RNTI | | '1010 1010 1010 1010' | Rel-5 | RBSE-011 |
| New Primary E-RNTI | | '1010 1010 1010 1010' | Rel-6 | RBSE-012 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RBSE-013 |
| RRC State indicator | | CELL_DCH | | RBSE-014 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBSE-015 |
| CN information info | | Not Present | | RBSE-016 |
| URA identity | | Not Present | | RBSE-017 |
| CHOICE specification mode | | Complete specification | Rel-6 | RBSE-018 |
| - Signalling RB information to setup | | Not Present | | RBSE-019 |
| - RAB information for setup list | | | | RBSE-020 |
| - RAB information for setup | | | | RBSE-021 |
| - RAB info | | (high-speed UM DTCH for PS domain) | | RBSE-022 |
| - RAB identity | | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSE-023 |
| - CN domain identity | | PS domain | | RBSE-024 |
| - NAS Synchronization Indicator | | Not Present | | RBSE-025 |
| - Re-establishment timer | | useT315 | | RBSE-026 |
| - RB information to setup | | | | RBSE-027 |
| - RB identity | | 25 | | RBSE-028 |
| - PDCP info | | Not present | | RBSE-029 |
| - CHOICE RLC info type | | RLC info | | RBSE-030 |
| - CHOICE Uplink RLC mode | | UM RLC | | RBSE-031 |
| - Transmission RLC discard | | Not present | | RBSE-032 |
| - CHOICE Downlink RLC mode | | UM RLC | | RBSE-033 |
| - DL UM RLC LI size | | Selected with DL UM RLC data size | Rel-5 | RBSE-034 |
| - DL Reception Window Size | | Not present | Rel-6 | RBSE-035 |
| - One sided RLC re-establishment | | FALSE | | RBSE-036 |
| - Alternative E-bit interpretation | | Not present | Rel-6 | RBSE-037 |
| - RB mapping info | | | | RBSE-038 |
| - Information for each multiplexing option | | 1 RBmuxOptions | | RBSE-039 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-040 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-041 |
| - Uplink transport channel type | | E-DCH | | RBSE-042 |
| - Logical channel identity | | 7 | | RBSE-043 |
| - E-DCH MAC-d flow identity | | 2 | | RBSE-044 |
| - DDI | | 5 | | RBSE-045 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-046 |
| - RLC PDU size | | 336 bits | | RBSE-047 |
| - Include in scheduling info | | TRUE | | RBSE-048 |
| - MAC logical channel priority | | 8 | | RBSE-049 |
| - Downlink RLC logical channel info | | | | RBSE-050 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-----------------------------------|---------|----------|
| - Number of downlink RLC logical channels | | 1 | | RBSE-051 |
| - Downlink transport channel type | | HS-DSCH | | RBSE-052 |
| - DL DCH Transport channel identity | | Not Present | | RBSE-053 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-054 |
| - CHOICE DL MAC header type | | MAC-ehs | Rel-7 | RBSE-055 |
| - DL HS-DSCH MAC-d flow identity | | 0 | | RBSE-056 |
| - Logical channel identity | | Not Present | | RBSE-057 |
| RB information to reconfigure list | | Not Present | Rel-6 | RBSE-058 |
| RB information to be affected | | | | RBSE-059 |
| - RB identity | | 1 (UM DCCH for RRC) | | RBSE-060 |
| - RB mapping info | | | | RBSE-061 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-062 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-063 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-064 |
| - Uplink transport channel type | | E-DCH | | RBSE-065 |
| - Logical channel identity | | 1 | | RBSE-066 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-067 |
| - DDI | | 1 | | RBSE-068 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-069 |
| - RLC PDU size | | 96 bits | | RBSE-070 |
| - Include in scheduling info | | FALSE | | RBSE-071 |
| - MAC logical channel priority | | 1 | | RBSE-072 |
| - Downlink RLC logical channel info | | | | RBSE-073 |
| - Number of RLC logical channels | | 1 | | RBSE-074 |
| - Downlink transport channel type | | DCH | | RBSE-075 |
| - DL DCH Transport channel identity | | 10 | | RBSE-076 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-077 |
| - Logical channel identity | | 1 | | RBSE-078 |
| - RB identity | | 2 (AM DCCH for RRC) | | RBSE-079 |
| - RB mapping info | | | | RBSE-080 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-081 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-082 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-083 |
| - Uplink transport channel type | | E-DCH | | RBSE-084 |
| - Logical channel identity | | 2 | | RBSE-085 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-086 |
| - DDI | | 2 | | RBSE-087 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-088 |
| - RLC PDU size | | 96 bits | | RBSE-089 |
| - Include in scheduling info | | FALSE | | RBSE-090 |
| - MAC logical channel priority | | 2 | | RBSE-091 |
| - Downlink RLC logical channel info | | | | RBSE-092 |
| - Number of RLC logical channels | | 1 | | RBSE-093 |
| - Downlink transport channel type | | DCH | | RBSE-094 |
| - DL DCH Transport channel identity | | 10 | | RBSE-095 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-096 |
| - Logical channel identity | | 2 | | RBSE-097 |
| - RB identity | | 3 (AM DCCH for NAS High Priority) | | RBSE-098 |
| - RB mapping info | | | | RBSE-099 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-100 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-101 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-102 |
| - Uplink transport channel type | | E-DCH | | RBSE-103 |
| - Logical channel identity | | 3 | | RBSE-104 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-105 |
| - DDI | | 3 | | RBSE-106 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-107 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|-----------|
| - RLC PDU size | | 96 bits | | RBSE-108 |
| - Include in scheduling info | | FALSE | | RBSE-109 |
| - MAC logical channel priority | | 3 | | RBSE-110 |
| - Downlink RLC logical channel info | | | | RBSE-111 |
| - Number of RLC logical channels | | 1 | | RBSE-112 |
| - Downlink transport channel type | | DCH | | RBSE-113 |
| - DL DCH Transport channel identity | | 10 | | RBSE-114 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-115 |
| - Logical channel identity | | 3 | | RBSE-116 |
| - RB identity | | 4 (AM DCCH for NAS Low Priority) | | RBSE-117 |
| - RB mapping info | | | | RBSE-118 |
| - Information for each multiplexing option | | 1 RBMuxOption | | RBSE-119 |
| - RLC logical channel mapping indicator | | Not Present | | RBSE-120 |
| - Number of uplink RLC logical channels | | 1 | | RBSE-121 |
| - Uplink transport channel type | | E-DCH | | RBSE-122 |
| - Logical channel identity | | 4 | | RBSE-123 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-124 |
| - DDI | | 4 | | RBSE-125 |
| - RLC PDU size list | | 1 RLC PDU size | | RBSE-126 |
| - RLC PDU size | | 96 bits | | RBSE-127 |
| - Include in scheduling info | | FALSE | | RBSE-128 |
| - MAC logical channel priority | | 4 | | RBSE-129 |
| - Downlink RLC logical channel info | | | | RBSE-130 |
| - Number of RLC logical channels | | 1 | | RBSE-131 |
| - Downlink transport channel type | | DCH | | RBSE-132 |
| - DL DCH Transport channel identity | | 10 | | RBSE-133 |
| - DL DSCH Transport channel identity | | Not Present | | RBSE-134 |
| - Logical channel identity | | 4 | | RBSE-135 |
| Downlink counter synchronization info | | Not Present | | RBSE-136 |
| PDCP ROHC target mode | | Not Present | Rel-5 | RBSE-137 |
| UL Transport channel information for all transport channels | | Not Present | | RBSE-138 |
| Deleted UL TrCH information | | | | RBSE-139 |
| - Uplink transport channel type | | DCH | | RBSE-140 |
| - UL transport channel identity | | 5 | | RBSE-141 |
| Added or Reconfigured UL TrCH information list | | 1 TrCH added | | RBSE-142 |
| - Added or Reconfigured UL TrCH information | | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | | RBSE-143 |
| - Uplink transport channel type | | E-DCH | | RBSE-144 |
| - CHOICE UL parameters | | E-DCH | | RBSE-145 |
| - UL MAC header type | | MAC-i/is | Rel-8 | RBSE-145a |
| - E-DCH Transmission Time Interval | | <u>2ms</u> | | RBSE-146 |
| - HARQ info for E-DCH | | | | RBSE-147 |
| - HARQ RV Configuration | | Rv0 | | RBSE-148 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DCCH) | | RBSE-149 |
| - E-DCH MAC-d flow identity | | 1 | | RBSE-150 |
| - E-DCH MAC-d flow power offset | | 0 | | RBSE-151 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBSE-152 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBSE-153 |
| - CHOICE transmission grant type | | Non-scheduled grant info | | RBSE-154 |
| - Max MAC-e PDU contents size | | 114 bits | | RBSE-155 |
| - 2 ms non-scheduled transmission grant HARQ process allocation | | Not Present | | RBSE-156 |
| - Added or reconfigured E-DCH MAC-d flow | | (for DTCH) | | RBSE-157 |
| - E-DCH MAC-d flow identity | | 2 | | RBSE-158 |
| - E-DCH MAC-d flow power offset | | 0 | | RBSE-159 |
| - E-DCH MAC-d flow maximum number of retransmissions | | 7 | | RBSE-160 |
| - E-DCH MAC-d flow multiplexing list | | Not Present | | RBSE-161 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|--------------------|----------|
| - CHOICE transmission grant type | | Scheduled grant info | | RBSE-162 |
| CHOICE <i>mode</i> | | Not Present | R99 and Rel-4 only | RBSE-163 |
| DL Transport channel information common for all transport channels | | Not Present | | RBSE-164 |
| DL Transport channel information common for all transport channels | | | | RBSE-165 |
| - SCCPCH TFCS | | Not Present | | RBSE-166 |
| - CHOICE <i>mode</i> | | FDD | | RBSE-167 |
| - CHOICE DL parameters | | Explicit | | RBSE-168 |
| - DL DCH TFCS | | | | RBSE-169 |
| - CHOICE TFCI Signalling | | Normal | | RBSE-170 |
| - TFCI Field 1 Information | | | | RBSE-171 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBSE-172 |
| - TFCS complete reconfigure | | | | RBSE-173 |
| - CHOICE CTFC Size | | 2 bit CTFC | | RBSE-174 |
| - CTFC information | | 2 TFCs | | RBSE-175 |
| - 2bit CTFC | | 0 | | RBSE-176 |
| - Power offset Information | | | | RBSE-177 |
| - CHOICE Gain Factors | | computedGainFactors | | RBSE-178 |
| - Reference TFC ID | | 0 | | RBSE-179 |
| - Power offset Pp-m | | Not Present | | RBSE-180 |
| - 2bit CTFC | | 1 | | RBSE-181 |
| - Power offset Information | | | | RBSE-182 |
| - CHOICE Gain Factors | | signalledGainFactors | | RBSE-183 |
| - CHOICE <i>mode</i> | | FDD | | RBSE-184 |
| - Gain factor β_c | | 15 | | RBSE-185 |
| - Gain factor β_d | | 15 | | RBSE-186 |
| - Reference TFC ID | | 0 | | RBSE-187 |
| - CHOICE <i>mode</i> | | FDD | | RBSE-188 |
| - Power offset Pp-m | | Not Present | | RBSE-189 |
| Deleted TrCH information list | | Not Present | | RBSE-190 |
| Added or Reconfigured TrCH information list | | 1 TrCH added | | RBSE-191 |
| - Added or Reconfigured DL TrCH information | | HS-DSCH for DTCH added | | RBSE-192 |
| - Downlink transport channel type | | HS-DSCH | | RBSE-193 |
| - DL Transport channel identity | | Not Present | | RBSE-194 |
| - CHOICE DL parameters | | HS-DSCH | | RBSE-195 |
| - HARQ Info | | | | RBSE-196 |
| - Number of Processes | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-197 |
| - CHOICE <i>Memory Partitioning</i> | | Explicit | | RBSE-198 |
| - Memory size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". | | RBSE-199 |
| - Process Memory Size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | | RBSE-200 |
| - Additional memory sizes for MIMO | | Not Present | Rel-7 | RBSE-201 |
| - CHOICE DL MAC header type | | MAC-hs | Rel-7 | RBSE-202 |
| - Added or reconfigured MAC-d flow | | | | RBSE-203 |
| - MAC-hs queue to add or reconfigure list | | (one queue) | | RBSE-204 |
| - MAC-hs queue Id | | 0 | | RBSE-205 |
| - MAC-d Flow Identity | | 0 | | RBSE-206 |
| - T1 | | 50 | | RBSE-207 |
| - MAC-hs window size | | 16 | | RBSE-208 |
| - MAC-d PDU size Info | | | | RBSE-209 |
| - MAC-d PDU size | | Reference to TS34.121 [2] Annex C Fixed Reference Channels | | RBSE-210 |
| - MAC-d PDU size index | | 0 | | RBSE-211 |
| - MAC-hs queue to delete list | | Not present | | RBSE-212 |
| - DCH quality target | | Not present | | RBSE-213 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------|-------------------|-----------|
| Frequency info | | Not present | | RBSE-214 |
| Multi-frequency Info | | Not present | Rel-7 | RBSE-215 |
| DTX-DRX timing information | | Not present | Rel-7 | RBSE-216 |
| DRX Information | | Not present | Rel-7 | RBSE-217 |
| HS-SCCH less Information | | Not present | Rel-7 | RBSE-218 |
| MIMO parameters | | Not present | Rel-7 | RBSE-219 |
| Maximum allowed UL TX power | | 33dBm | | RBSE-220 |
| CHOICE channel requirement | | Uplink DPCH info | Rel-5 and earlier | RBSE-221 |
| Uplink DPCH info | | | Rel-6 | RBSE-222 |
| - Uplink DPCH power control info | | | | RBSE-223 |
| - DPCCH power offset | | -40 (-80dB) | | RBSE-224 |
| - PC Preamble | | 1 frame | | RBSE-225 |
| - SRB delay | | 7 frames | | RBSE-226 |
| - Power Control Algorithm | | Algorithm1 | | RBSE-227 |
| - TPC step size | | 0 (1dB) | | RBSE-228 |
| - Δ_{ACK} | A1 | 0 | | RBSE-229 |
| - Δ_{ACK} | A2 | 6 | | RBSE-229a |
| - Δ_{NACK} | A1 | 0 | | RBSE-230 |
| - Δ_{NACK} | A2 | 6 | | RBSE-230a |
| - Ack-Nack repetition factor | | 1 | | RBSE-231 |
| - HARQ_preamble_mode | | 0 | | RBSE-232 |
| - Scrambling code type | | Long | | RBSE-233 |
| - Scrambling code number | | 0 (0 to 16777215) | | RBSE-234 |
| - Number of DPDCH | | 0 | | RBSE-235 |
| - spreading factor | | Not present | | RBSE-236 |
| - TFCI existence | | FALSE | | RBSE-237 |
| - Number of FBI bit | | Not present | | RBSE-238 |
| - Puncturing Limit | | Not present | | RBSE-239 |
| E-DCH info | | | Rel-6 | RBSE-240 |
| - MAC-es/e reset indicator | | TRUE | | RBSE-241 |
| - E-DPCCH info | | | | RBSE-242 |
| - E-DPCCH/DPCCH power offset | | 0 | | RBSE-243 |
| - Happy bit delay condition | | 100 ms | | RBSE-244 |
| - E-TFC Boost Info | | | | RBSE-244a |
| - E-TFCI boost | | 67 | Rel-7 | RBSE-245 |
| - Delta T2TP | | 5 (15 dB) | | RBSE-245a |
| - E-DPDCH power interpolation | | Not present | Rel-7 | RBSE-246 |
| - E-DPDCH info | | | | RBSE-247 |
| - E-TFCI table index | A1 | 0 | | RBSE-248 |
| - E-TFCI table index | A2 | 1 | | RBSE-248a |
| - E-DCH minimum set E-TFCI | | 67 | | RBSE-249 |
| - Reference E-TFCIs | | 2 E-TFCI | | RBSE-250 |
| - Reference E-TFCI | | 1 | | RBSE-251 |
| - Reference E-TFCI PO | | 12 | | RBSE-252 |
| - Reference E-TFCI | | 68 | | RBSE-252a |
| - Reference E-TFCI PO | | 19 | | RBSE-252b |
| - Minimum reduced E-DPDCH gain factor. | A1 | 30/15 | Rel-8 | RBSE-252c |
| - Minimum reduced E-DPDCH gain factor. | A2 | 84/15 | Rel-8 | RBSE-252d |
| - Maximum channelisation codes | | 2sf2and2sf4 | | RBSE-253 |
| - PLnon-max | | 0.84 | | RBSE-254 |
| - Scheduling Information Configuration | | | | RBSE-255 |
| - Periodicity for Scheduling Info – no grant | | Not present | | RBSE-256 |
| - Periodicity for Scheduling Info – grant | | Not present | | RBSE-257 |
| - Power Offset for Scheduling Info | | 0 | | RBSE-258 |
| - 3-Index-Step Threshold | | Not present | | RBSE-259 |
| - 2-Index-Step Threshold | | Not present | | RBSE-260 |
| - Scheduled Transmission configuration | | | | RBSE-261 |
| - 2ms scheduled transmission grant | | Not present | | RBSE-262 |
| HARQ process allocation | | | | |
| - Serving Grant | | Not present | | RBSE-263 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|---|--------------------|-------------|
| - UL 16QAM settings | A1 | Not present | Rel-7 | RBSE-264 |
| - UL 16QAM settings | A2 | | Rel-7 | RBSE-264a |
| - BetaEd gain E-AGCH table selection | | 1 | | RBSE-264b |
| CHOICE Mode | | FDD | R99 and Rel-4 only | RBSE-265 |
| - Downlink PDSCH information | | Not Present | R99 and Rel-4 only | RBSE-266 |
| Uplink secondary cell info FDD | | | Rel-9 | RBSE-267 |
| - Secondary serving E-DCH cell info | | | | RBSE-268 |
| - Primary E-RNTI | | '1010 1010 1010 1010' | | RBSE-269 |
| - Secondary E-RNTI | | Not Present | | RBSE-270 |
| - Secondary E-DCH info common | | | | RBSE-271 |
| - Frequency info | | | | RBSE-272 |
| - UARFCN uplink (Nu) | | Reference to clause 5.1 Test frequencies | | RBSE-273 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBSE-274 |
| - Scrambling code type | | Short | | RBSE-275 |
| - Scrambling code number | | 0 | | RBSE-276 |
| - 2ms scheduled transmission grant | | Not Present | | RBSE-277 |
| HARQ process allocation | | | | RBSE-278 |
| - Serving Grant | | | | RBSE-279 |
| - Primary/Secondary Grant Selector | | Primary | | RBSE-280 |
| - Minimum reduced E-DPCH gain factor | A1 | 30/15 | | RBSE-280a |
| - Minimum reduced E-DPCH gain factor | A2 | 84/15 | | RBSE-281 |
| - E-DCH minimum set E-TFCI | | 67 | | RBSE-282 |
| - DPCCH Power offset for secondary UL frequency | | 0 dB | | RBSE-283 |
| - PC Preamble | | 0 frame | | RBSE-284 |
| - Downlink information per radio link list on secondary UL frequency | | | | RBSE-285 |
| - Downlink information for each radio link on secondary UL frequency | | 1 | | RBSE-286 |
| - Primary CPICH info | | | | RBSE-287 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBSE-288 |
| - Cell ID | | Not Present | | RBSE-289 |
| - Downlink F-DPCH info for each RL on secondary UL frequency | | | | RBSE-290 |
| - Downlink F-DPCH info for each RL | | | | RBSE-291 |
| - Primary CPICH usage for channel estimate | | | | RBSE-292 |
| - F-DPCH frame offset | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSE-293 |
| - F-DPCH slot format | | 3 if UE supports enhanced F-DPCH, otherwise Not Present | | RBSE-294 |
| - Secondary CPICH info | | Not Present | | RBSE-295 |
| - Secondary scrambling code | | Not Present | | RBSE-296 |
| - Code number | | 12 | | RBSE-297 |
| - TPC combination index | | 0 | | RBSE-298 |
| - STTD | | FALSE | | RBSE-299 |
| - E-AGCH Info | | | | RBSE-300 |
| - E-AGCH Channelisation Code | | 10 | | RBSE-301 |
| - E-HICH Info | | | | RBSE-302 |
| - Channelisation Code | | 4 | | RBSE-303 |
| - Signature Sequence | | 1 | | RBSE-304 |
| - E-RGCH Info | | | | RBSE-305 |
| - Signature Sequence | | 0 | | RBSE-306 |
| - RG combination index | | 0 | | RBSE-307 |
| Downlink HS-PDSCH Information | | | | RBSE-308 |
| - HS-SCCH Info | | | | RBSE-309 |
| - CHOICE mode | | FDD | | RBSE-310 |
| - DL Scrambling Code | | Not present | | RBSE-311 |
| - HS-SCCH Channelisation Code | | | | Information |

| Information Element | Condition | Value/remark | Version | Index |
|--|--|---|--------------------|-----------|
| <ul style="list-style-type: none"> - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - POhdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI} - Δ_{CQI} - CHOICE mode - Downlink 64QAM configured | <ul style="list-style-type: none"> A1 A2 | 2 | | RBSE-312 |
| | | 3 | | RBSE-313 |
| | | FDD | | RBSE-314 |
| | | 6 dB | | RBSE-315 |
| | | 2 ms | | RBSE-316 |
| | | 1 | | RBSE-317 |
| | | 0 | | RBSE-318 |
| | | 6 | | RBSE-319 |
| | | FDD | | RBSE-319a |
| | | Not Present | | RBSE-320 |
| | | | Rel-7 | RBSE-321 |
| Downlink information common for all radio links | | Not Present | | RBSE-322 |
| Downlink information for each radio link list | | | | RBSE-323 |
| <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code | | FDD | | RBSE-324 |
| | | Ref. to clause 6.1 "Default settings (FDD)" | | RBSE-325 |
| | | Not Present | | RBSE-326 |
| | | | R99 and Rel-4 only | RBSE-327 |
| | | Not Present | R99 and Rel-4 only | RBSE-328 |
| | | TRUE | | RBSE-329 |
| | | TRUE | | RBSE-330 |
| | | FDD | | RBSE-331 |
| | | Primary CPICH may be used | | RBSE-332 |
| | | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 | | RBSE-333 |
| Not Present | | RBSE-334 | | |
| | | | | RBSE-335 |
| | | | | RBSE-336 |
| | | | | RBSE-337 |
| | | | | RBSE-338 |
| | | 256 | | RBSE-339 |
| | | 192 | | RBSE-340 |
| <ul style="list-style-type: none"> - Scrambling code change - TPC combination index - SSdT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - DL Scrambling code - Channelisation code - Signature sequence - CHOICE E-RGCH Information - SCCPCH information for FACH | | No code change | | RBSE-341 |
| | | 0 | | RBSE-342 |
| | | Not Present | | RBSE-343 |
| | | Not Present | R99 and Rel-4 only | RBSE-344 |
| | | 14 | Rel-6 | RBSE-345 |
| | | | Rel-6 | RBSE-346 |
| | | | | RBSE-347 |
| | | | | RBSE-348 |
| | | Not Present (default is primary) | | RBSE-349 |
| | | 6 | | RBSE-350 |
| 1 | | RBSE-351 | | |
| Not Present | Rel-6 | RBSE-352 | | |
| Not Present | R99 and Rel-4 only | RBSE-353 | | |
| Downlink secondary cell info FDD | | | Rel-8 | RBSE-354 |
| - CHOICE Configuration info | | New configuration | | RBSE-355 |
| - New H-RNTI | | '1010 1010 1010 1010' | | RBSE-356 |
| - Downlink 64QAM configured | | Not Present | | RBSE-357 |
| - HS-DSCH TB size table | | Not Present | | RBSE-358 |
| - Primary CPICH info | | | | RBSE-359 |
| - Primary scrambling code | | Ref. to the Default setting in clause 6.1 (FDD) | | RBSE-360 |
| - DL Scrambling Code | | Not Present | | RBSE-361 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - HS-SCCH Channelisation Code Information | | | | RBSE-362 |
| - HS-SCCH Channelisation Code | | 2 | | RBSE-363 |
| - HS-SCCH Channelisation Code | | 3 | | RBSE-364 |
| - Measurement Power Offset | | 6 dB | | RBSE-365 |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies | | RBSE-366 |
| MBMS PL Service Restriction Information | | Not Present | Rel-6 | RBSE-367 |

| Condition | Explanation | Version |
|-----------|---|---------|
| A1 | This IE is used when test is performed with UL E-DCH reference measurement channel for DC-HSUPA using BPSK as specified in TS 34.121-1 subclause C.2.6 | |
| A2 | This IE is used when test is performed with UL E-DCH reference measurement channel for DC-HSUPA using 16QAM as specified in TS 34.121-1 subclause C.2.7 | |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark | Version |
|-------------------------------|---|------------|
| Message Type | | |
| U-RNTI | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | R99, Rel-4 |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| CHOICE identity type | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | Rel-5 |
| - U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - Message authentication code | | |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. | |
| N308 | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). | |
| Release cause | Normal event | |
| Rplmn information | Not Present | |
| Redirection info | Not Present | Rel-6 |

Contents of RRC CONNECTION SETUP message: UM

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| Message Type | | | | RCSU-001 |
| Initial UE identity | | Select the same identity as in the IE "Initial UE Identity" in received "RRC CONNECTION REQUEST" message | | RCSU-002 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RCSU-003 |
| Activation time | | Not Present(Now) | | RCSU-004 |
| New U-RNTI | | | | RCSU-005 |
| - SRNC identity | | 0000 0000 0001B | | RCSU-006 |
| - S-RNTI | | 0000 0000 0000 0000 0001B | | RCSU-007 |
| New C-RNTI | | Not Present | | RCSU-008 |
| New H-RNTI | | Not Present | Rel-6 | RCSU-009 |
| New Primary E-RNTI | | Not Present | Rel-6 | RCSU-010 |
| New Secondary E-RNTI | | Not Present | Rel-6 | RCSU-011 |
| RRC State Indicator | | CELL_DCH | | RCSU-012 |
| UTRAN DRX cycle length coefficient | | 9 | | RCSU-013 |
| Capability update requirement | | | | RCSU-014 |
| - UE radio access FDD capability update | | TRUE | | RCSU-015 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|-----------|
| requirement | | | | |
| - UE radio access TDD capability update requirement | | FALSE | | RCSU-016 |
| - UE radio access 3.84 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCSU-017 |
| - UE radio access 1.28 Mcps TDD capability update requirement | | FALSE | Rel-4 | RCSU-018 |
| - System specific capability update requirement list | | 1 entry (for Rel-7 and earlier) 2 entry (for Rel-8 and later) | | RCSU-019 |
| - System specific capability update requirement | | GSM | | RCSU-019a |
| - System specific capability update requirement | | E-UTRA | Rel-8 | RCSU-019b |
| CHOICE <i>specification mode</i> | | Complete specification | Rel-5 | RCSU-020 |
| - Complete specification | | | Rel-5 | RCSU-021 |
| - Signalling RB information to setup list | | 4 SRBs | | RCSU-022 |
| - Signalling RB information to setup | | (UM DCCH for RRC) | | RCSU-023 |
| - RB identity | | Not Present | | RCSU-024 |
| - CHOICE RLC info type | | RLC info | | RCSU-025 |
| - CHOICE Uplink RLC mode | | UM RLC | | RCSU-026 |
| - Transmission RLC discard | | Not Present | | RCSU-027 |
| - CHOICE Downlink RLC mode | | UM RLC | | RCSU-028 |
| - DL UM RLC LI size | | 7 bit | Rel-6 | RCSU-029 |
| - One sided RLC re-establishment | | FALSE | Rel-6 | RCSU-030 |
| - RB mapping info | | | | RCSU-031 |
| - Information for each multiplexing option | | 2 RBMUXOptions | | RCSU-032 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-033 |
| - Number of RLC logical channels | | 1 | | RCSU-034 |
| - Uplink transport channel type | | DCH | | RCSU-035 |
| - UL Transport channel identity | | 5 | | RCSU-036 |
| - Logical channel identity | | 1 | | RCSU-037 |
| - CHOICE RLC size list | | Configured | | RCSU-038 |
| - MAC logical channel priority | | 1 | | RCSU-039 |
| - Downlink RLC logical channel info | | | | RCSU-040 |
| - Number of RLC logical channels | | 1 | | RCSU-041 |
| - Downlink transport channel type | | DCH | | RCSU-042 |
| - DL DCH Transport channel identity | | 10 | | RCSU-043 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-044 |
| - Logical channel identity | | 1 | | RCSU-045 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-046 |
| - Number of RLC logical channels | | 1 | | RCSU-047 |
| - Uplink transport channel type | | RACH | | RCSU-048 |
| - UL Transport channel identity | | Not Present | | RCSU-049 |
| - Logical channel identity | | 1 | | RCSU-050 |
| - CHOICE RLC size list | | Explicit List | | RCSU-051 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCSU-052 |
| - MAC logical channel priority | | 1 | | RCSU-053 |
| - Downlink RLC logical channel info | | | | RCSU-054 |
| - Number of RLC logical channels | | 1 | | RCSU-055 |
| - Downlink transport channel type | | FACH | | RCSU-056 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-057 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-058 |
| - Logical channel identity | | 1 | | RCSU-059 |
| - Signalling RB information to setup | | (AM DCCH for RRC) | | RCSU-060 |
| - RB identity | | Not Present | | RCSU-061 |
| - CHOICE RLC info type | | | | RCSU-062 |
| - RLC info | | | | RCSU-063 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-064 |
| - Transmission RLC discard | | | | RCSU-065 |
| - SDU discard mode | | No Discard | | RCSU-066 |
| - MAX_DAT | | 15 | | RCSU-067 |
| - Transmission window size | | 128 | | RCSU-068 |
| - Timer_RST | | 500 | | RCSU-069 |
| - Max_RST | | 1 | | RCSU-070 |
| - Polling info | | | | RCSU-071 |
| - Timer_poll_prohibit | | 200 | | RCSU-072 |
| - Timer_poll | | 200 | | RCSU-073 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - Poll_PDU | | Not Present | | RCSU-074 |
| - Poll_SDU | | 1 | | RCSU-075 |
| - Last transmission PDU poll | | TRUE | | RCSU-076 |
| - Last retransmission PDU poll | | TRUE | | RCSU-077 |
| - Poll_Windows | | 99 | | RCSU-078 |
| - Timer_poll_periodic | | Not Present | | RCSU-079 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-080 |
| - DL RLC PDU size | | 96 bits | Rel-6 | RCSU-081 |
| - DL RLC PDU size | A1 | 144 bits | Rel-6 | RCSU-082 |
| - In-sequence delivery | | TRUE | | RCSU-083 |
| - Receiving window size | | 128 | | RCSU-084 |
| - Downlink RLC status info | | | | RCSU-085 |
| - Timer_status_prohibit | | 200 | | RCSU-086 |
| - Timer_EPC | | Not Present | | RCSU-087 |
| - Missing PDU indicator | | TRUE | | RCSU-088 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-089 |
| - RB mapping info | | | | RCSU-090 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCSU-091 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-092 |
| - Number of RLC logical channels | | 1 | | RCSU-093 |
| - Uplink transport channel type | | DCH | | RCSU-094 |
| - UL Transport channel identity | | 5 | | RCSU-095 |
| - Logical channel identity | | 2 | | RCSU-096 |
| - CHOICE RLC size list | | Configured | | RCSU-097 |
| - MAC logical channel priority | | 2 | | RCSU-098 |
| - Downlink RLC logical channel info | | | | RCSU-099 |
| - Number of RLC logical channels | | 1 | | RCSU-100 |
| - Downlink transport channel type | | DCH | | RCSU-101 |
| - DL DCH Transport channel identity | | 10 | | RCSU-102 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-103 |
| - Logical channel identity | | 2 | | RCSU-104 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-105 |
| - Number of RLC logical channels | | 1 | | RCSU-106 |
| - Uplink transport channel type | | RACH | | RCSU-107 |
| - UL Transport channel identity | | Not Present | | RCSU-108 |
| - Logical channel identity | | 2 | | RCSU-109 |
| - CHOICE RLC size list | | Explicit List | | RCSU-110 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCSU-111 |
| - MAC logical channel priority | | 2 | | RCSU-112 |
| - Downlink RLC logical channel info | | | | RCSU-113 |
| - Number of RLC logical channels | | 1 | | RCSU-114 |
| - Downlink transport channel type | | FACH | | RCSU-115 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-116 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-117 |
| - Logical channel identity | | 2 | | RCSU-118 |
| - Signalling RB information to setup | | (AM DCCH for NAS_DT High priority) | | RCSU-119 |
| - RB identity | | Not Present | | RCSU-120 |
| - CHOICE RLC info type | | | | RCSU-121 |
| - RLC info | | | | RCSU-122 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-123 |
| - Transmission RLC discard | | | | RCSU-124 |
| - SDU discard mode | | No Discard | | RCSU-125 |
| - MAX_DAT | | 15 | | RCSU-126 |
| - Transmission window size | | 128 | | RCSU-127 |
| - Timer_RST | | 500 | | RCSU-128 |
| - Max_RST | | 1 | | RCSU-129 |
| - Polling info | | | | RCSU-130 |
| - Timer_poll_prohibit | | 200 | | RCSU-131 |
| - Timer_poll | | 200 | | RCSU-132 |
| - Poll_PDU | | Not Present | | RCSU-133 |
| - Poll_SDU | | 1 | | RCSU-134 |
| - Last transmission PDU poll | | TRUE | | RCSU-135 |
| - Last retransmission PDU poll | | TRUE | | RCSU-136 |
| - Poll_Windows | | 99 | | RCSU-137 |
| - Timer_poll_periodic | | Not Present | | RCSU-138 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-139 |
| - DL RLC PDU size | | 96 bits | Rel-6 | RCSU-140 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|-------------------------------------|---------|----------|
| - DL RLC PDU size | A1 | 144 bits | Rel-6 | RCSU-141 |
| - In-sequence delivery | | TRUE | | RCSU-142 |
| - Receiving window size | | 128 | | RCSU-143 |
| - Downlink RLC status info | | | | RCSU-144 |
| - Timer_status_prohibit | | 200 | | RCSU-145 |
| - Timer_EPC | | Not Present | | RCSU-146 |
| - Missing PDU indicator | | TRUE | | RCSU-147 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-148 |
| - RB mapping info | | | | RCSU-149 |
| - Information for each multiplexing option | | 2 RBMuxOptions | | RCSU-150 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-151 |
| - Number of RLC logical channels | | 1 | | RCSU-152 |
| - Uplink transport channel type | | DCH | | RCSU-153 |
| - UL Transport channel identity | | 5 | | RCSU-154 |
| - Logical channel identity | | 3 | | RCSU-155 |
| - CHOICE RLC size list | | Configured | | RCSU-156 |
| - MAC logical channel priority | | 3 | | RCSU-157 |
| - Downlink RLC logical channel info | | | | RCSU-158 |
| - Number of RLC logical channels | | 1 | | RCSU-159 |
| - Downlink transport channel type | | DCH | | RCSU-160 |
| - DL DCH Transport channel identity | | 10 | | RCSU-161 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-162 |
| - Logical channel identity | | 3 | | RCSU-163 |
| - RLC logical channel mapping indicator | | Not Present | | RCSU-164 |
| - Number of RLC logical channels | | 1 | | RCSU-165 |
| - Uplink transport channel type | | RACH | | RCSU-166 |
| - UL Transport channel identity | | Not Present | | RCSU-167 |
| - Logical channel identity | | 3 | | RCSU-168 |
| - CHOICE RLC size list | | Explicit List | | RCSU-169 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RCSU-170 |
| - MAC logical channel priority | | 3 | | RCSU-171 |
| - Downlink RLC logical channel info | | | | RCSU-172 |
| - Number of RLC logical channels | | 1 | | RCSU-173 |
| - Downlink transport channel type | | FACH | | RCSU-174 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-175 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-176 |
| - Logical channel identity | | 3 | | RCSU-177 |
| - Signalling RB information to setup | | (AM DCCH for NAS_DT Low priority) | | RCSU-178 |
| - RB identity | | Not Present | | RCSU-179 |
| - CHOICE RLC info type | | | | RCSU-180 |
| - RLC info | | | | RCSU-181 |
| - CHOICE Uplink RLC mode | | AM RLC | | RCSU-182 |
| - Transmission RLC discard | | | | RCSU-183 |
| - SDU discard mode | | No Discard | | RCSU-184 |
| - MAX_DAT | | 15 | | RCSU-185 |
| - Transmission window size | | 128 | | RCSU-186 |
| - Timer_RST | | 500 | | RCSU-187 |
| - Max_RST | | 1 | | RCSU-188 |
| - Polling info | | | | RCSU-189 |
| - Timer_poll_prohibit | | 200 | | RCSU-190 |
| - Timer_poll | | 200 | | RCSU-191 |
| - Poll_PDU | | Not Present | | RCSU-192 |
| - Poll_SDU | | 1 | | RCSU-193 |
| - Last transmission PDU poll | | TRUE | | RCSU-194 |
| - Last retransmission PDU poll | | TRUE | | RCSU-195 |
| - Poll_Windows | | 99 | | RCSU-196 |
| - Timer_poll_periodic | | Not Present | | RCSU-197 |
| - CHOICE Downlink RLC mode | | AM RLC | | RCSU-198 |
| - DL RLC PDU size | | 96 bits | Rel-6 | RCSU-199 |
| - DL RLC PDU size | A1 | 144 bits | Rel-6 | RCSU-200 |
| - In-sequence delivery | | TRUE | | RCSU-201 |
| - Receiving window size | | 128 | | RCSU-202 |
| - Downlink RLC status info | | | | RCSU-203 |
| - Timer_status_prohibit | | 200 | | RCSU-204 |
| - Timer_EPC | | Not Present | | RCSU-205 |
| - Missing PDU indicator | | TRUE | | RCSU-206 |
| - Timer_STATUS_periodic | | Not Present | | RCSU-207 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|-------------------------------------|---------|----------|
| - RB mapping info | | 2 RBMuxOptions | | RCSU-208 |
| - Information for each multiplexing option | | Not Present | | RCSU-209 |
| - RLC logical channel mapping indicator | | 1 | | RCSU-210 |
| - Number of RLC logical channels | | DCH | | RCSU-211 |
| - Uplink transport channel type | | 5 | | RCSU-212 |
| - UL Transport channel identity | | 4 | | RCSU-213 |
| - Logical channel identity | | Configured | | RCSU-214 |
| - CHOICE RLC size list | | 4 | | RCSU-215 |
| - MAC logical channel priority | | 1 | | RCSU-216 |
| - Downlink RLC logical channel info | | DCH | | RCSU-217 |
| - Number of RLC logical channels | | 10 | | RCSU-218 |
| - Downlink transport channel type | | Not Present | | RCSU-219 |
| - DL DCH Transport channel identity | | 4 | | RCSU-220 |
| - DL DSCH Transport channel identity | | Not Present | | RCSU-221 |
| - Logical channel identity | | 1 | | RCSU-222 |
| - RLC logical channel mapping indicator | | RACH | | RCSU-223 |
| - Number of RLC logical channels | | Not Present | | RCSU-224 |
| - Uplink transport channel type | | Not Present | | RCSU-225 |
| - UL Transport channel identity | | 4 | | RCSU-226 |
| - Logical channel identity | | Explicit List | | RCSU-227 |
| - CHOICE RLC size list | | Reference to clause 6 Parameter Set | | RCSU-228 |
| - RLC size index | | 4 | | RCSU-229 |
| - MAC logical channel priority | | 1 | | RCSU-230 |
| - Downlink RLC logical channel info | | FACH | | RCSU-231 |
| - Number of RLC logical channels | | Not Present | | RCSU-232 |
| - Downlink transport channel type | | Not Present | | RCSU-233 |
| - DL DCH Transport channel identity | | Not Present | | RCSU-234 |
| - DL DSCH Transport channel identity | | 4 | | RCSU-235 |
| - Logical channel identity | | 4 | | RCSU-236 |
| UL Transport channel information for all transport channels | | | | RCSU-237 |
| - PRACH TFCS | | Not Present | | RCSU-238 |
| - CHOICE Mode | | FDD | | RCSU-239 |
| - TFC subset | | Not Present | | RCSU-240 |
| - UL DCH TFCS | | Normal | | RCSU-241 |
| - CHOICE TFCI signalling | | Complete reconfiguration | | RCSU-242 |
| - TFCI Field 1 information | | | | RCSU-243 |
| - CHOICE TFCS representation | | 2 bit CTFC | | RCSU-244 |
| - TFCS complete reconfiguration information | | 2 TFCS | | RCSU-245 |
| - CHOICE CTFC Size | | 0 | | RCSU-246 |
| - CTFC information | | computedGainFactors | | RCSU-247 |
| - 2bit CTFC | | 0 | | RCSU-248 |
| - Power offset Information | | 0 | | RCSU-249 |
| - CHOICE Gain Factors | | FDD | | RCSU-250 |
| - Reference TFC ID | | Not Present | | RCSU-251 |
| - CHOICE mode | | 1 | | RCSU-252 |
| - Power offset Pp-m | | signalledGainFactors | | RCSU-253 |
| - 2bit CTFC | | FDD | | RCSU-254 |
| - Power offset Information | | 15 | | RCSU-255 |
| - CHOICE Gain Factors | | 15 | | RCSU-256 |
| - CHOICE mode | | 0 | | RCSU-257 |
| - Gain factor β_c | | FDD | | RCSU-258 |
| - Gain factor β_d | | Not Present | | RCSU-259 |
| - Reference TFC ID | | 1 | | RCSU-260 |
| - CHOICE mode | | DCH | | RCSU-261 |
| - Power offset Pp-m | | 5 | | RCSU-262 |
| Added or Reconfigured UL TrCH information list | | | | RCSU-263 |
| - Added or Reconfigured UL TrCH information | | Dedicated transport channels | | RCSU-264 |
| - Uplink transport channel type | | 96 bits | | RCSU-265 |
| - UL Transport channel identity | | | | RCSU-266 |
| - TFS | | | | RCSU-267 |
| - CHOICE Transport channel type | | | | RCSU-268 |
| - Dynamic Transport Format Information | | | | RCSU-269 |
| - RLC size | | | | RCSU-270 |
| - RLC size | A1 | 144 bits | | RCSU-271 |
| - Number of TBs and TTI List | | 2 | | RCSU-272 |
| - Transmission Time Interval | | Not Present | | RCSU-273 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|-------------------|-------------------|----------|
| - Number of Transport blocks | | 0 | | RCSU-274 |
| - Transmission Time Interval | | Not Present | | RCSU-275 |
| - Number of Transport blocks | | 1 | | RCSU-276 |
| - CHOICE Logical channel List | | ALL | | RCSU-277 |
| - Semi-static Transport Format Information | | | | RCSU-278 |
| - Transmission time interval | | 40 | | RCSU-279 |
| - Type of channel coding | | Convolutional | | RCSU-280 |
| - Coding Rate | | 1/3 | | RCSU-281 |
| - Rate matching attribute | | 256 | | RCSU-282 |
| - CRC size | | 12 | | RCSU-283 |
| - CRC size | A1 | 16 | | RCSU-284 |
| DL Transport channel information common for all transport channel | | | | RCSU-285 |
| - SCCPCH TFCS | | Not Present | | RCSU-286 |
| - CHOICE mode | | FDD | | RCSU-287 |
| - CHOICE DL parameters | | Same as UL | | RCSU-288 |
| Added or Reconfigured DL TrCH information list | | 1 | | RCSU-289 |
| - Added or Reconfigured DL TrCH information | | | | RCSU-290 |
| - Downlink transport channel type | | DCH | | RCSU-291 |
| - DL Transport channel identity | | 10 | | RCSU-292 |
| - CHOICE DL parameters | | SameAsUL | | RCSU-293 |
| - Uplink transport channel type | | DCH | | RCSU-294 |
| - UL TrCH Identity | | 5 | | RCSU-295 |
| - DCH quality target | | -20 (-2.0) | | RCSU-296 |
| - BLER Quality value | | Not Present | | RCSU-297 |
| Frequency info | | Not Present | | RCSU-298 |
| Maximum allowed UL TX power | | Not Present | | RCSU-299 |
| CHOICE channel requirement | | Uplink DPCH info | Rel-5 and earlier | RCSU-300 |
| Uplink DPCH info | | | Rel-6 | RCSU-301 |
| - Uplink DPCH power control info | | | | RCSU-302 |
| - DPCCH power offset | | -40 (-80dB) | | RCSU-303 |
| - PC Preamble | | 1 frame | | RCSU-304 |
| - SRB delay | | 7 frames | | RCSU-305 |
| - Power Control Algorithm | | Algorithm1 | | RCSU-306 |
| - TPC step size | | 0 (1dB) | | RCSU-307 |
| - Δ_{ACK} | | Not Present | Rel-5 | RCSU-308 |
| - Δ_{NACK} | | Not Present | Rel-5 | RCSU-309 |
| - Ack-Nack repetition factor | | Not Present | Rel-5 | RCSU-310 |
| - HARQ_preamble_mode | | 0 | Rel-6 | RCSU-311 |
| - CHOICE mode | | FDD | | RCSU-312 |
| - Scrambling code type | | Long | | RCSU-313 |
| - Scrambling code number | | 0 (0 to 16777215) | | RCSU-314 |
| - Number of DPDCH | | Not Present (1) | | RCSU-315 |
| - Spreading factor | | 256 | | RCSU-316 |
| - TFCI existence | | TRUE | | RCSU-317 |
| - Number of FBI bit | | Not Present(0) | | RCSU-318 |
| - Puncturing Limit | | 1 | | RCSU-319 |
| E-DCH Info | | Not Present | Rel-6 | RCSU-320 |
| Downlink HS-PDSCH Information | | Not Present | Rel-6 | RCSU-321 |
| Downlink information common for all radio links | | | | RCSU-322 |
| - Downlink DPCH info common for all RL | | | | RCSU-323 |
| - Timing Indication | | Initialize | | RCSU-324 |
| - CFN-targetSFN frame offset | | Not Present | | RCSU-325 |
| - Downlink DPCH power control information | | | | RCSU-326 |
| - CHOICE mode | | FDD | | RCSU-327 |
| - DPC mode | | 0 (single) | | RCSU-328 |
| - CHOICE mode | | FDD | | RCSU-329 |
| - Power offset $P_{Pilot-DPDCCH}$ | | 0 | | RCSU-330 |
| - DL rate matching restriction information | | Not Present | | RCSU-331 |
| - Spreading factor | | 256 | | RCSU-332 |
| - Fixed or Flexible Position | | Fixed | | RCSU-333 |
| - TFCI existence | | FALSE | | RCSU-334 |
| - CHOICE SF | | | | RCSU-335 |
| - Number of bits for Pilot bits | | 8 | | RCSU-336 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|---|--------------------|----------|
| - DPCH compressed mode info | | Not Present | | RCSU-337 |
| - TX Diversity mode | | None | | RCSU-338 |
| - SSDT information | | Not Present | R99 and Rel-4 only | RCSU-339 |
| - Default DPCH Offset Value | | Arbitrary set to value 0..306688 by step of 512 | | RCSU-340 |
| Downlink information for per radio links list | | | | RCSU-341 |
| -Downlink information for each radio links | | | | RCSU-342 |
| - CHOICE mode | | FDD | | RCSU-343 |
| - Primary CPICH info | | Reference to clause 6.1 "Default settings (FDD)" | | RCSU-344 |
| - Primary scrambling code | | | | RCSU-345 |
| - PDSCH with SHO DCH info | | Not Present | R99 and Rel-4 only | RCSU-346 |
| - PDSCH code mapping | | Not Present | R99 and Rel-4 only | RCSU-347 |
| - Serving HS-DSCH radio link indicator | | FALSE | Rel-6 | RCSU-348 |
| - Serving E-DCH radio link indicator | | FALSE | Rel-6 | RCSU-349 |
| - Downlink DPCH info for each RL | | | | RCSU-350 |
| - CHOICE mode | | FDD | | RCSU-351 |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used | | RCSU-352 |
| - DPCH frame offset | | Set to value : Default DPCH Offset Value mod 38 400 | | RCSU-353 |
| - Secondary CPICH info | | Not Present | | RCSU-354 |
| - DL channelisation code | | | | RCSU-355 |
| - Secondary scrambling code | | Not Present | | RCSU-356 |
| - Spreading factor | | 256 | | RCSU-357 |
| - Code number | | 192 | | RCSU-358 |
| - Scrambling code change | | Not Present | | RCSU-359 |
| - TPC combination index | | 0 | | RCSU-360 |
| - SSDT Cell Identity | | Not Present | R99 and Rel-4 only | RCSU-361 |
| - Closed loop timing adjustment mode | | Not Present | | RCSU-362 |
| - E-AGCH Info | | Not Present | Rel-6 | RCSU-363 |
| - E-HICH Information | | Not Present | Rel-6 | RCSU-364 |
| - E-RGCH Information | | Not Present | Rel-6 | RCSU-365 |
| - SCCPCH information for FACH | | Not Present | R99 and Rel-4 only | RCSU-366 |

| Condition | Explanation |
|-----------|-------------------------------|
| A1 | UE supporting 64kbps(Chanel2) |

Contents of SECURITY MODE COMMAND message: AM

| Information Element | Condition | Value/remark |
|----------------------------------|-----------|--|
| Message Type | A1, A2 | |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | | |
| - Message authentication code | | Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number | | Set to an arbitrarily selected integer between 0 and 15 |
| Security capability | | |
| - Ciphering algorithm capability | | If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. |
| - UEA0 | | |
| - UEA1 | | If the UE has indicated support for ciphering |

| | | |
|--|-----------|--|
| <ul style="list-style-type: none"> - Spare - Integrity protection algorithm capability - UIA1 - Spare | | <p>algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. Spare 2-15 = FALSE 000000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE</p> |
| <p>Ciphering mode info</p> <ul style="list-style-type: none"> - Ciphering mode command - Ciphering algorithm <p>info</p> <ul style="list-style-type: none"> - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number | | <p>This presence of this IE is dependent on IXT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.</p> <p>Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.</p> <p>Not Present</p> <p>1 Current RLC SN</p> <p>2 Current RLC SN+3(or Calculated Value)</p> <p>3 Current RLC SN</p> <p>4 Current RLC SN</p> |
| <p>Integrity protection mode info</p> <ul style="list-style-type: none"> - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number | | <p>Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH. The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.A1</p> |
| <p>CN domain identity</p> | | <p>CS or PS</p> |
| <p>UE system specific security capability</p> | <p>A1</p> | <p>Not Present</p> |
| <p>UE system specific security capability</p> <ul style="list-style-type: none"> - Inter-RAT UE security capability - CHOICE <i>system</i> - GSM security capability | <p>A2</p> | <p>GSM The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message.</p> |

| Condition | Explanation |
|-----------|-----------------------|
| A1 | UE not supporting GSM |
| A2 | UE supporting GSM |

9.2.2 Default Message Contents for RF (TDD)

Contents of Activate RB Test Mode message

| Information Element | Value/remark |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 44h |

Contents of Close UE Test Loop message

| Information Element | Value/remark |
|------------------------------|-----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 40h |
| UE test loop mode | 00h |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

Contents of Open UE Test Loop message

| Information Element | Value/remark |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator | 0 (Length 1/2) |
| Message Type | 42h |

Contents of PAGING TYPE 1 message: TM (CS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| -Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Streaming Call |
| - CN domain identity | CS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of PAGING TYPE 1 message: TM (PS)

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| Paging record list | |
| -Paging record | |
| - CHOICE Used paging identity | CN identity |
| - Paging cause | Terminating Interactive Call |
| - CN domain identity | PS domain |
| - CHOICE UE identity | |
| - IMSI (GSM-MAP) | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info | Not Present |

Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|------------------------------------|-----------|--|--------------------|----------|
| Message Type | A1,A3 | | | RBS3-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS3-002 |
| Integrity check info | | | | RBS3-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS3-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS3-005 |
| Integrity protection mode info | | Not Present | | RBS3-006 |
| Ciphering mode info | | Not Present | | RBS3-007 |
| Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBS3-008 |
| New U-RNTI | | Not Present | | RBS3-009 |
| New C-RNTI | | Not Present | | RBS3-010 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBS3-011 |
| New H-RNTI | | Not Present | Rel-5 | RBS3-012 |
| RRC State indicator | | CELL_DCH | | RBS3-013 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBS3-014 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| CN information info | | Not Present | | RBS3-015 |
| URA identity | | Not Present | | RBS3-016 |
| - Signalling RB information to setup | A1 | Not Present | | RBS3-017 |
| - RAB information for setup list | | | | RBS3-018 |
| - RAB information for setup | | | | RBS3-019 |
| - RAB info | | | | RBS3-020 |
| - RAB identity | | 0000 0001B | | RBS3-021 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | CS domain | | RBS3-022 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-023 |
| - Re-establishment timer | | UseT314 | | RBS3-024 |
| - RB information to setup list | | | | RBS3-025 |
| - RB information to setup | | | | RBS3-026 |
| - RB identity | | 10 | | RBS3-027 |
| - PDCP info | | Not Present | | RBS3-028 |
| - CHOICE RLC info type | | RLC info | | RBS3-029 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-030 |
| - Transmission RLC discard | | Not Present | | RBS3-031 |
| - Segmentation indication | | FALSE | | RBS3-032 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-033 |
| - Segmentation indication | | FALSE | | RBS3-034 |
| - RB mapping info | | | | RBS3-035 |
| - Information for each multiplexing option | | | | RBS3-036 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-037 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-038 |
| - Uplink transport channel type | | DCH | | RBS3-039 |
| - UL Transport channel identity | | 1 | | RBS3-040 |
| - Logical channel identity | | Not Present | | RBS3-041 |
| - CHOICE RLC size list | | Configured | | RBS3-042 |
| - MAC logical channel priority | | 7 | | RBS3-043 |
| - Downlink RLC logical channel info | | | | RBS3-044 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-045 |
| - Downlink transport channel type | | DCH | | RBS3-046 |
| - DL DCH Transport channel identity | | 6 | | RBS3-047 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-048 |
| - Logical channel identity | | Not Present | | RBS3-049 |
| RAB information for setup list | A3 | | | RBS3-050 |
| - RAB information for setup | | | | RBS3-051 |
| - RAB info | | | | RBS3-052 |
| - RAB identity | | 0000 0101B | | RBS3-053 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | PS domain | | RBS3-054 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-055 |
| - Re-establishment timer | | UseT314 | | RBS3-056 |
| - RB information to setup list | | | | RBS3-057 |
| - RB information to setup | | | | RBS3-058 |
| - RB identity | | 20 | | RBS3-059 |
| - PDCP info | | Not Present | | RBS3-060 |
| - CHOICE RLC info type | | RLC info | | RBS3-061 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-062 |
| - Transmission RLC discard | | | | RBS3-063 |
| - CHOICE SDU discard mode | | No discard | | RBS3-064 |
| - MAX_DAT | | 15 | | RBS3-065 |
| - Transmission window size | | 128 | | RBS3-066 |
| - Timer_RST | | 500 | | RBS3-067 |
| - Max_RST | | 4 | | RBS3-068 |
| - Polling info | | | | RBS3-069 |
| - Timer_poll_prohibit | | 200 | | RBS3-070 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - Timer_poll | | 200 | | RBS3-071 |
| - Poll_SDU | | 1 | | RBS3-072 |
| - Last transmission PDU poll | | TRUE | | RBS3-073 |
| - Last retransmission PDU poll | | TRUE | | RBS3-074 |
| - Poll_Windows | | 99 | | RBS3-075 |
| - Timer_poll_periodic | | Not Present | | RBS3-076 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-077 |
| - In-sequence delivery | | TRUE | | RBS3-078 |
| - Receiving window size | | 128 | | RBS3-079 |
| - Downlink RLC status info | | | | RBS3-080 |
| - Timer_status_prohibit | | 200 | | RBS3-081 |
| - Timer_EPC | | 200 | | RBS3-082 |
| - Missing PDU indicator | | TRUE | | RBS3-083 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-084 |
| - RB mapping info | | | | RBS3-085 |
| - Information for each multiplexing option | | 2RBMuxOptions | | RBS3-086 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-087 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-088 |
| - Uplink transport channel type | | DCH | | RBS3-089 |
| - UL Transport channel identity | | 1 | | RBS3-090 |
| - Logical channel identity | | Not Present | | RBS3-091 |
| - CHOICE RLC size list | | Configured | | RBS3-092 |
| - MAC logical channel priority | | 8 | | RBS3-093 |
| - Downlink RLC logical channel info | | | | RBS3-094 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-095 |
| - Downlink transport channel type | | DCH | | RBS3-096 |
| - DL DCH Transport channel identity | | 6 | | RBS3-097 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-098 |
| - Logical channel identity | | Not Present | | RBS3-099 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-100 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-101 |
| - Uplink transport channel type | | RACH | | RBS3-102 |
| - UL Transport channel identity | | Not Present | | RBS3-103 |
| - Logical channel identity | | 7 | | RBS3-104 |
| - CHOICE RLC size list | | Explicit List | | RBS3-105 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS3-106 |
| - MAC logical channel priority | | 8 | | RBS3-107 |
| - Downlink RLC logical channel info | | | | RBS3-108 |
| - Number of downlink RLC logical channels | | 1 | | RBS3-109 |
| - Downlink transport channel type | | FACH | | RBS3-110 |
| - DL DCH Transport channel identity | | Not Present | | RBS3-111 |
| - DL DSCH Transport channel identity | | Not Present | | RBS3-112 |
| - Logical channel identity | | Not Present | | RBS3-113 |
| RB information to be affected list | A1,A3 | Not Present | | RBS3-114 |
| Downlink counter synchronization info | | Not Present | | RBS3-115 |
| UL Transport channel information for all transport channels | A1,A3 | Not Present | | RBS3-116 |
| - PRACH TFCS | | Not Present | | RBS3-117 |
| - CHOICE mode | | TDD | | RBS3-118 |
| -Individual UL CCTrCH information | | | | RBS3-119 |
| - TFCS ID | | (This IE is repeated for TFC number.) | | RBS3-120 |
| - Allowed Transport Format combination | | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RBS3-121 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|--|
| <ul style="list-style-type: none"> - PRACH TFCS - CHOICE TFCI signalling <ul style="list-style-type: none"> - TFCI Field 1 information - TFCS complete reconfigure information <ul style="list-style-type: none"> - CHOICE TFCS Size <ul style="list-style-type: none"> - CTFC information - CHOICE mode <ul style="list-style-type: none"> - Individual UL CCTrCH information Deleted UL TrCH information list | | (This IE is repeated for TFC number.) Normal Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present | | RBS3-122 RBS3-123 RBS3-124 RBS3-125 RBS3-126 RBS3-127 RBS3-128 RBS3-129 RBS3-130 |
| Added or Reconfigured UL TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size | A1 | 1 DCH 1 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set Not Present 1 ALL Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set | | RBS3-131 RBS3-132 RBS3-133 RBS3-134 RBS3-135 RBS3-136 RBS3-137 RBS3-138 RBS3-139 RBS3-140 RBS3-141 RBS3-142 RBS3-143 RBS3-144 RBS3-145 RBS3-146 RBS3-147 RBS3-148 RBS3-149 RBS3-150 |
| CHOICE mode | A1, A3 | TDD (no data) | | RBS3-151 |
| DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters | A1,A3 | Not Present TDD Independent (Refer to clause 6) | | RBS3-152 RBS3-153 RBS3-154 RBS3-155 |
| Deleted DL TrCH information list Added or Reconfigured DL TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1,A3 | Not Present 1 DCH 6 Same as UL DCH 1 Reference to clause 6 | | RBS3-156 RBS3-157 RBS3-158 RBS3-159 RBS3-160 RBS3-161 RBS3-162 RBS3-163 RBS3-164 RBS3-165 |
| Frequency info Maximum allowed UL TX power CHOICE channel requirement <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option <ul style="list-style-type: none"> - Individual timeslot interference info <ul style="list-style-type: none"> - Individual timeslot interference | A1,A3 | Not Present 30dBm Uplink DPCH info TDD Reference to clause 6 Parameter set. Individually signalled 3.84 Mcps | | RBS3-166 RBS3-167 RBS3-168 RBS3-169 RBS3-170 RBS3-171 RBS3-172 RBS3-173 RBS3-174 RBS3-175 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - DPCH Constant Value | | Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34] | | RBS3-176 |
| - CHOICE mode | | TDD | | RBS3-177 |
| - Uplink Timing Advance Control | | Not Present | | RBS3-178 |
| - UL CTrCH List | | | | RBS3-179 |
| - TFCS Id | | 1 | | RBS3-180 |
| - Time info | | | | RBS3-181 |
| - Activation time | | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBS3-182 |
| - Duration | | Infinite | | RBS3-183 |
| - Common timeslot info | | | | RBS3-184 |
| - 2 nd interleaving mode | | Reference to clause 6.10 Parameter Set | | RBS3-185 |
| - TFCI coding | | Reference to clause 6.10 Parameter Set | | RBS3-186 |
| - Puncturing Limit | | Reference to clause 6.10 Parameter Set | | RBS3-187 |
| - Repetition Period | | Reference to clause 6.10 Parameter Set | | RBS3-188 |
| - Repetition Length | | Reference to clause 6.10 Parameter Set | | RBS3-189 |
| - First individual timeslot info | | | | RBS3-190 |
| - Timeslot number | | The number of an uplink timeslot that has unassigned codes. | | RBS3-191 |
| - TFCI existence | | TRUE | | RBS3-192 |
| - Midamble shift and burst type | | | | RBS3-193 |
| - CHOICE TDD option | | 3.84 Mcps | | RBS3-194 |
| -CHOICE Burst Type | | | | RBS3-195 |
| -Type 1 | | | | RBS3-196 |
| -Midamble | | Default | | RBS3-197 |
| Allocation Mode | | | | |
| - Midamble | | As defined in 3GPP TS 25.221 [28] | | RBS3-198 |
| configuration burst type 1 and 3 | | | | |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS3-199 |
| - Channelisation code | | (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBS3-200 |
| - CHOICE more timeslots | | The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned. | | RBS3-201 |
| CHOICE Mode | | TDD (no data) | | RBS3-202 |
| Downlink HS-PDSCH Information | A1,A3 | Not Present | Rel-5 | RBS3-203 |
| Downlink information common for all radio links | A1,A3 | | | RBS3-204 |
| - Downlink DPCH info common for all RL | | | | RBS3-205 |
| - Timing indicator | | Maintain | | RBS3-206 |
| - CFN-targetSFN frame offset | | Not Present | | RBS3-207 |
| - Downlink DPCH power control information | | | | RBS3-208 |
| - CHOICE mode | | TDD | | RBS3-209 |
| - DPC mode | | 0 (single) | | RBS3-210 |
| - CHOICE TDD mode | | 3.84 Mcps (no data) | | RBS3-211 |
| - Default DPCH Offset Value | | Not Present | | RBS3-212 |
| Downlink information for per radio link list | A1,A3 | | | RBS3-213 |
| - Downlink information for each radio link | | | | RBS3-214 |
| - CHOICE mode | | TDD | | RBS3-215 |
| - Primary CCPCH info | | | | RBS3-216 |
| - CHOICE SyncCase | | Sync Case 1 | | RBS3-217 |
| - Timeslot | | PCCPCH timeslot | | RBS3-218 |
| - Cell parameters ID | | 0 | | RBS3-219 |
| - SCTD indicator | | | | RBS3-220 |
| - Downlink DPCH info for each RL | | | | RBS3-221 |
| - CHOICE mode | | TDD | | RBS3-222 |
| - DL CTrCH List | | | | RBS3-223 |
| - TFCS ID | | 1 | | RBS3-224 |
| - Time info | | | | RBS3-225 |
| - Activation time | | $(256+CFN-(CFN \text{ mod } 8 + 8))\text{mod } 256$ | | RBS3-226 |
| - Duration | | infinite | | RBS3-227 |
| - Common timeslot info | | | | RBS3-228 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|--------------------|----------|
| and codes | | Reference to the present document | | RBS3-229 |
| | | TRUE | | RBS3-230 |
| burst type | | Reference to clause 6 Parameter set | | RBS3-231 |
| | | 1 | | RBS3-232 |
| Allocation Mode | | Empty | | RBS3-233 |
| | | | | RBS3-234 |
| channelisation codes | | The number of a downlink timeslot that has unassigned codes. | | RBS3-235 |
| | | TRUE | | RBS3-236 |
| FACH | | - TFCI existence | | RBS3-237 |
| | | - Midamble shift and | | RBS3-238 |
| and codes | | - CHOICE TDD option | | RBS3-239 |
| | | -CHOICE Burst Type | | RBS3-240 |
| burst type | | -Type 1 | | RBS3-241 |
| | | -Midamble | | RBS3-242 |
| Allocation Mode | | Default | | RBS3-243 |
| | | | | RBS3-244 |
| - Midamble configuration burst type 1 and 3 | | As defined in 3GPP TS 25.221 [28] | | RBS3-245 |
| | | | | RBS3-246 |
| channelisation codes | | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. | | RBS3-247 |
| | | | | RBS3-248 |
| - Last channelisation code | | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RBS3-249 |
| | | | | RBS3-250 |
| - Bitmap | | Bitmap of the codes that are being assigned in the slot. | | RBS3-247 |
| | | | | RBS3-248 |
| - CHOICE more timeslots | | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RBS3-248 |
| | | | | RBS3-249 |
| - UL CCTrCH TPC List | | Not Present | R99 and Rel-4 only | RBS3-249 |
| | | Not Present | | RBS3-250 |

| Condition | Explanation |
|-----------|--|
| A1 | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected. |
| A3 | This IE is needed for acknowledged mode. |
| NOTE: | In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements. |

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--------------------------------|-----------|--|--------------------|--|
| Message Type | A1,A3 | | | RBS1-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS1-002 |
| Integrity check info | | | | RBS1-003 |
| | | - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS1-005 |
| Integrity protection mode info | | Not Present | | RBS1-006 |
| Ciphering mode info | | Not Present | | RBS1-007 |
| Activation time | | $(256+CFN-(CFN \text{ MOD } 8 + 8)) \text{ MOD } 256$ | | RBS1-008 |
| New U-RNTI | | Not Present | | RBS1-009 |
| New C-RNTI | | Not Present | | RBS1-010 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBS1-011 |
| New H-RNTI | | Not Present | Rel-5 | RBS1-012 |
| New Primary E-RNTI | | Not Present | Rel-6 | RBS1-013 |
| RRC State indicator | | CELL_DCH | | RBS1-014 |

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|---------|----------|
| UTRAN DRX cycle length coefficient | | Not Present | | RBS1-015 |
| CN information info | | Not Present | | RBS1-016 |
| URA identity | | Not Present | | RBS1-017 |
| CHOICE specification mode | | Complete specification | | RBS1-018 |
| - Signalling RB information to setup | A1 | Not Present | | RBS1-019 |
| - RAB information for setup list | | | | RBS1-020 |
| - RAB information for setup | | | | RBS1-021 |
| - RAB info | | | | RBS1-022 |
| - RAB identity | | 0000 0001B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-023 |
| - CN domain identity | | CS domain | | RBS1-024 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-025 |
| - Re-establishment timer | | UseT314 | | RBS1-026 |
| - RB information to setup list | | | | RBS1-027 |
| - RB information to setup | | | | RBS1-028 |
| - RB identity | | 10 | | RBS1-029 |
| - PDCP info | | Not Present | | RBS1-030 |
| - CHOICE RLC info type | | RLC info | | RBS1-031 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS1-032 |
| - Transmission RLC discard | | Not Present | | RBS1-033 |
| - Segmentation indication | | FALSE | | RBS1-034 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS1-035 |
| - Segmentation indication | | FALSE | | RBS1-036 |
| - One sided RLC re-establishment | | FALSE | Rel-5 | RBS1-037 |
| - RB mapping info | | | | RBS1-038 |
| - Information for each multiplexing option | | | | RBS1-039 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-040 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-041 |
| - Uplink transport channel type | | DCH | | RBS1-042 |
| - UL Transport channel identity | | 1 | | RBS1-043 |
| - Logical channel identity | | Not Present | | RBS1-044 |
| - CHOICE RLC size list | | Configured | | RBS1-045 |
| - MAC logical channel priority | | 7 | | RBS1-046 |
| - Downlink RLC logical channel info | | | | RBS1-047 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-048 |
| - Downlink transport channel type | | DCH | | RBS1-049 |
| - DL DCH Transport channel identity | | 6 | | RBS1-050 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-051 |
| - Logical channel identity | | Not Present | | RBS1-052 |
| RAB information for setup list | A3 | | | RBS1-053 |
| - RAB information for setup | | | | RBS1-054 |
| - RAB info | | | | RBS1-055 |
| - RAB identity | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS1-056 |
| - CN domain identity | | PS domain | | RBS1-057 |
| - NAS Synchronization Indicator | | Not Present | | RBS1-058 |
| - Re-establishment timer | | UseT315 | | RBS1-059 |
| - RB information to setup list | | | | RBS1-060 |
| - RB information to setup | | | | RBS1-061 |
| - RB identity | | 20 | | RBS1-062 |
| - PDCP info | | Not Present | | RBS1-063 |
| - CHOICE RLC info type | | RLC info | | RBS1-064 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS1-065 |
| - Transmission RLC discard | | | | RBS1-066 |
| - CHOICE SDU discard mode | | No discard | | RBS1-067 |
| - MAX_DAT | | 15 | | RBS1-068 |
| - Transmission window size | | 128 | | RBS1-069 |
| - Timer_RST | | 500 | | RBS1-070 |
| - Max_RST | | 4 | | RBS1-071 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|-------------------------------------|--------------------|----------|
| - Polling info | | 200 | | RBS1-072 |
| - Timer_poll_prohibit | | 200 | | RBS1-073 |
| - Timer_poll | | 200 | | RBS1-074 |
| - Poll_PDU | | Not Present | | RBS1-075 |
| - Poll_SDU | | 1 | | RBS1-076 |
| - Last transmission PDU poll | | TRUE | | RBS1-077 |
| - Last retransmission PDU poll | | TRUE | | RBS1-078 |
| - Poll_Windows | | 99 | | RBS1-079 |
| - Timer_poll_periodic | | Not Present | | RBS1-080 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS1-081 |
| - DL RLC PDU size | | Reference to clause 6 Parameter Set | Rel-5 | RBS1-082 |
| - In-sequence delivery | | TRUE | | RBS1-083 |
| - Receiving window size | | 128 | | RBS1-084 |
| - Downlink RLC status info | | | | RBS1-085 |
| - Timer_status_prohibit | | 200 | | RBS1-086 |
| - Timer_EPC | | 200 | R99 and Rel-4 only | RBS1-087 |
| - Missing PDU indicator | | TRUE | | RBS1-088 |
| - Timer_STATUS_periodic | | Not Present | | RBS1-089 |
| - One sided RLC re-establishment | | FALSE | Rel-5 | RBS1-090 |
| - RB mapping info | | | | RBS1-091 |
| - Information for each multiplexing option | | 2RBMuxOptions | | RBS1-092 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-093 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-094 |
| - Uplink transport channel type | | DCH | | RBS1-095 |
| - UL Transport channel identity | | 1 | | RBS1-096 |
| - Logical channel identity | | Not Present | | RBS1-097 |
| - CHOICE RLC size list | | Configured | | RBS1-098 |
| - MAC logical channel priority | | 8 | | RBS1-099 |
| - Downlink RLC logical channel info | | | | RBS1-100 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-101 |
| - Downlink transport channel type | | DCH | | RBS1-102 |
| - DL DCH Transport channel identity | | 6 | | RBS1-103 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-104 |
| - Logical channel identity | | Not Present | | RBS1-105 |
| - RLC logical channel mapping indicator | | Not Present | | RBS1-106 |
| - Number of uplink RLC logical channels | | 1 | | RBS1-107 |
| - Uplink transport channel type | | RACH | | RBS1-108 |
| - UL Transport channel identity | | Not Present | | RBS1-109 |
| - Logical channel identity | | 7 | | RBS1-110 |
| - CHOICE RLC size list | | Explicit List | | RBS1-111 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS1-112 |
| - MAC logical channel priority | | 8 | | RBS1-113 |
| - Downlink RLC logical channel info | | | | RBS1-114 |
| - Number of downlink RLC logical channels | | 1 | | RBS1-115 |
| - Downlink transport channel type | | FACH | | RBS1-116 |
| - DL DCH Transport channel identity | | Not Present | | RBS1-117 |
| - DL DSCH Transport channel identity | | Not Present | | RBS1-118 |
| - Logical channel identity | | 7 | | RBS1-119 |
| RAB information to reconfigure list | | Not Present | Rel-6 | RBS1-120 |
| RB information to reconfigure list | | Not Present | Rel-6 | RBS1-121 |
| RB information to be affected list | A1,A3 | Not Present | | RBS1-122 |
| Downlink counter synchronization info | | Not Present | | RBS1-123 |
| PDCP ROHC target mode | | Not Present | Rel-5 | RBS1-124 |
| UL Transport channel information for all transport channels | A1,A3 | | | RBS1-125 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - PRACH TFCS | | Not Present | | RBS1-126 |
| - CHOICE mode | | TDD | | RBS1-127 |
| - Individual UL CCTrCH information | | | | RBS1-128 |
| - UL TFCS Identity | | | | RBS1-129 |
| - TFCS ID | | 1 | | RBS1-130 |
| - Shared Channel Indicator | | FALSE | | RBS1-131 |
| - CHOICE TFCI signalling | | Normal | | RBS1-134 |
| - TFCI Field 1 information | | | | RBS1-135 |
| - CHOICE TFCS representation | | Complete reconfiguration | | RBS1-136 |
| - TFCS complete reconfigure information | | | | RBS1-137 |
| - CHOICE TFCS Size | | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. | | RBS1-138 |
| - CTFC information | | Refer to clause 6 Parameter Set | | RBS1-139 |
| - CHOICE Subset representation | | Full (no data) | | RBS1-142 |
| - TFC subset list | | Not Present | | RBS1-143 |
| Deleted UL TrCH information list | A1,A3 | Not Present | | RBS1-144 |
| Added or Reconfigured UL TrCH information list | A1,A3 | 1 | | RBS1-145 |
| - Added or Reconfigured UL TrCH information | | | | RBS1-146 |
| - Uplink transport channel type | | DCH | | RBS1-147 |
| - UL Transport channel identity | | 1 | | RBS1-148 |
| - TFS | | | | RBS1-149 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS1-150 |
| - Dynamic Transport Format Information | | | | RBS1-151 |
| - RLC size | | Reference to clause 6 Parameter Set | | RBS1-152 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS1-153 |
| - Transmission Time Interval | | Not Present | | RBS1-154 |
| - Number of Transport blocks | | Reference to clause 6 Parameter Set | | RBS1-155 |
| - Transmission Time Interval | | Not Present | | RBS1-156 |
| - Number of Transport blocks | | 1 | | RBS1-157 |
| - CHOICE Logical channel List | | ALL | | RBS1-158 |
| - Semi-static Transport Format Information | | | | RBS1-159 |
| - Transmission time interval | | Reference to clause 6 Parameter Set | | RBS1-160 |
| - Type of channel coding | | Reference to clause 6 Parameter Set | | RBS1-161 |
| - Coding Rate | | Reference to clause 6 Parameter Set | | RBS1-162 |
| - Rate matching attribute | | Reference to clause 6 Parameter Set | | RBS1-163 |
| - CRC size | | Reference to clause 6 Parameter Set | | RBS1-164 |
| DL Transport channel information common for all transport channel | A1,A3 | | | RBS1-166 |
| - SCCPCH TFCS | | Not Present | | RBS1-167 |
| - CHOICE mode | | TDD | | RBS1-168 |
| - Individual DL CCTrCH information | | | | RBS1-169 |
| - DL TFCS Identity | | | | RBS1-170 |
| - TFCS ID | | 1 | | RBS1-171 |
| - Shared Channel Indicator | | FALSE | | RBS1-172 |
| - CHOICE DL parameters | | Same as UL | | RBS1-173 |
| - UL DCH TFCS Identity | | | | RBS1-174 |
| - TFCS ID | | 1 | | RBS1-175 |
| - Shared Channel Indicator | | FALSE | | RBS1-176 |
| Deleted DL TrCH information list | A1,A3 | Not Present | | RBS1-177 |
| Added or Reconfigured DL TrCH information list | A1,A3 | 1 | | RBS1-178 |
| - Added or Reconfigured DL TrCH information | | | | RBS1-179 |
| - Downlink transport channel type | | DCH | | RBS1-180 |
| - DL Transport channel identity | | 6 | | RBS1-181 |
| - CHOICE DL parameters | | Same as UL | | RBS1-182 |
| - Uplink transport channel type | | DCH | | RBS1-183 |
| - UL TrCH identity | | 1 | | RBS1-184 |
| - DCH quality target | | | | RBS1-185 |
| - BLER Quality value | | Reference to clause 6 | | RBS1-186 |
| Frequency info | A1,A3 | Not Present | | RBS1-187 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|-------------------|----------|
| Multi-frequency Info | | Not Present | Rel-7 | RBS1-188 |
| DTX-DRX timing information | | Not Present | Rel-7 | RBS1-189 |
| DTX-DRX Information | | Not Present | Rel-7 | RBS1-190 |
| HS-SCCH less Information | | Not Present | Rel-7 | RBS1-191 |
| MIMO parameters | | Not Present | Rel-7 | RBS1-192 |
| Control Channel DRX information | | Not Present | Rel-8 | RBS1-193 |
| SPS Information | | Not Present | Rel-8 | RBS1-194 |
| Maximum allowed UL TX power | | 30dBm | | RBS1-195 |
| CHOICE channel requirement | A1,A3 | Uplink DPCH info | Rel-5 and earlier | RBS1-196 |
| Uplink DPCH info | | | Rel-6 | RBS1-197 |
| - Uplink DPCH power control info | | | | RBS1-198 |
| - CHOICE mode | | TDD | | RBS1-199 |
| - PRXPDPCHdes | | Reference to clause 6 Parameter set. | | RBS1-200 |
| - CHOICE UL OL PC info | | Individually signalled | | RBS1-201 |
| - CHOICE TDD option | | 1.28 Mcps | Rel-4 | RBS1-202 |
| - TPC step size | | 0 (1 dB) | | RBS1-203 |
| - Primary CCPCH Tx Power | | 30 dBm | | RBS1-204 |
| - CHOICE mode | | TDD | | RBS1-205 |
| - Uplink Timing Advance Control | | Not Present | | RBS1-206 |
| - UL CCTrCH List | | | | RBS1-207 |
| - TFCS Id | | 1 | | RBS1-208 |
| - PRXPDPCHdes | | Reference to clause 6 Parameter set. | | RBS1-209 |
| - Time info | | | | RBS1-210 |
| - Activation time | | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBS1-211 |
| - Duration | | Infinite | | RBS1-212 |
| - Common timeslot info | | | | RBS1-213 |
| - 2 nd interleaving mode | | Reference to clause 6 Parameter Set | | RBS1-214 |
| - TFCI coding | | Reference to clause 6 Parameter Set | | RBS1-215 |
| - Puncturing Limit | | Reference to clause 6 Parameter Set | | RBS1-216 |
| - Repetition Period | | Reference to clause 6 Parameter Set | | RBS1-217 |
| - Repetition Length | | Reference to clause 6 Parameter Set | | RBS1-218 |
| - CHOICE TDD option | | 1.28 Mcps | Rel-4 | RBS1-219 |
| - Dynamic SF usage | | | | RBS1-220 |
| - First individual timeslot info | | | | RBS1-221 |
| - Timeslot number | | The number of an uplink timeslot that has unassigned codes. | | RBS1-222 |
| - TFCI existence | | TRUE | | RBS1-223 |
| - Midamble shift and burst type | | | | RBS1-224 |
| - CHOICE TDD option | | 1.28 Mcps | Rel-4 | RBS1-225 |
| - Midamble allocation mode | | Default | | RBS1-226 |
| - Midamble configuration | | 8 (k=16) | | RBS1-227 |
| - CHOICE TDD option | | 1.28 Mcps | Rel-4 | RBS1-228 |
| - Modulation | | QPSK | | RBS1-229 |
| - SS-TPC Symbols | | 1 | | RBS1-230 |
| - CHOICE Mode | | TDD | | RBS1-231 |
| - First timeslot channelisation codes | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS1-232 |
| - Channelisation code | | (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBS1-233 |
| - CHOICE more timeslots | | The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned. | | RBS1-234 |
| - UL CCTrCH List to Remove | | Not Present | | RBS1-236 |
| E-DCH Info | | Not Present | Rel-6 | RBS1-237 |
| Downlink HS-PDSCH Information | A1,A3 | Not Present | Rel-5 | RBS1-238 |
| Downlink information common for all radio links | A1,A3 | | | RBS1-239 |
| - Downlink DPCH info common for all RL | | | | RBS1-240 |
| - Timing indicator | | Maintain | | RBS1-241 |
| - CFN-targetSFN frame offset | | Not Present | | RBS1-242 |
| - Downlink DPCH power control information | | | | RBS1-243 |

| Condition | Explanation |
|-----------|-------------------------------|
| A1 | This IE is needed for CS RAB |
| A3 | This IE is needed for PS RAB. |

Contents of RADIO BEARER SETUP message: AM or UM (7.68 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|--|-----------|--|--------------------|----------|
| Message Type | A1,A3 | | | RBS3-001 |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 | | RBS3-002 |
| Integrity check info | | | | RBS3-003 |
| - message authentication code | | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS3-004 |
| - RRC message sequence number | | SS provides the value of this IE, from its internal counter. | | RBS3-005 |
| Integrity protection mode info | | Not Present | | RBS3-006 |
| Ciphering mode info | | Not Present | | RBS3-007 |
| Activation time | | $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ | | RBS3-008 |
| New U-RNTI | | Not Present | | RBS3-009 |
| New C-RNTI | | Not Present | | RBS3-010 |
| New DSCH-RNTI | | Not Present | R99 and Rel-4 only | RBS3-011 |
| New H-RNTI | | Not Present | Rel-5 | RBS3-012 |
| CHOICE mode | | TDD | Rel-7 | RBS3-013 |
| - New E-RNTI | | Not Present | Rel-7 | RBS3-014 |
| RRC State indicator | | CELL_DCH | | RBS3-015 |
| UTRAN DRX cycle length coefficient | | Not Present | | RBS3-016 |
| CN information info | | Not Present | | RBS3-017 |
| URA identity | | Not Present | | RBS3-018 |
| - Signalling RB information to setup | | Not Present | | RBS3-019 |
| - RAB information for setup list | A1 | | | RBS3-020 |
| - RAB information for setup | | | | RBS3-021 |
| - RAB info | | | | RBS3-022 |
| - RAB identity | | 0000 0001B | | RBS3-023 |
| | | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | | CS domain | | RBS3-024 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-025 |
| - Re-establishment timer | | UseT314 | | RBS3-026 |
| - RB information to setup list | | | | RBS3-027 |
| - RB information to setup | | | | RBS3-028 |
| - RB identity | | 10 | | RBS3-029 |
| - PDCP info | | Not Present | | RBS3-030 |
| - CHOICE RLC info type | | RLC info | | RBS3-031 |
| - CHOICE Uplink RLC mode | | TM RLC | | RBS3-032 |
| - Transmission RLC discard | | Not Present | | RBS3-033 |
| - Segmentation indication | | FALSE | | RBS3-034 |
| - CHOICE Downlink RLC mode | | TM RLC | | RBS3-035 |
| - Segmentation indication | | FALSE | | RBS3-036 |
| - RB mapping info | | | | RBS3-037 |
| - Information for each multiplexing option | | | | RBS3-038 |
| - RLC logical channel mapping indicator | | Not Present | | RBS3-039 |
| - Number of uplink RLC logical channels | | 1 | | RBS3-040 |
| - Uplink transport channel type | | DCH | | RBS3-041 |
| - UL Transport channel identity | | 1 | | RBS3-042 |
| - Logical channel identity | | Not Present | | RBS3-043 |
| - CHOICE RLC size list | | Configured | | RBS3-044 |
| - MAC logical channel priority | | 7 | | RBS3-045 |
| - Downlink RLC logical channel info | | | | RBS3-046 |
| - Number of downlink RLC logical | | 1 | | RBS3-047 |

| Information Element | Condition | Value/remark | Version | Index |
|-------------------------------------|-----------|---------------|--|----------|
| channels | A3 | DCH | | RBS3-048 |
| - Downlink transport channel type | | 6 | | RBS3-049 |
| identity | | | | |
| - DL DCH Transport channel | | Not Present | | RBS3-050 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS3-051 |
| RAB information for setup list | | | | RBS3-052 |
| - RAB information for setup | | | | RBS3-053 |
| - RAB info | | | | RBS3-054 |
| - RAB identity | | | 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | |
| - CN domain identity | | PS domain | | RBS3-056 |
| - NAS Synchronization Indicator | | Not Present | | RBS3-057 |
| - Re-establishment timer | | UseT314 | | RBS3-058 |
| - RB information to setup list | | | | RBS3-059 |
| - RB information to setup | | | | RBS3-060 |
| - RB identity | | 20 | | RBS3-061 |
| - PDCP info | | Not Present | | RBS3-062 |
| - CHOICE RLC info type | | RLC info | | RBS3-063 |
| - CHOICE Uplink RLC mode | | AM RLC | | RBS3-064 |
| - Transmission RLC discard | | | | RBS3-065 |
| - CHOICE SDU discard mode | | No discard | | RBS3-066 |
| - MAX_DAT | | 15 | | RBS3-067 |
| - Transmission window size | | 128 | | RBS3-068 |
| - Timer_RST | | 500 | | RBS3-069 |
| - Max_RST | | 4 | | RBS3-070 |
| - Polling info | | | | RBS3-071 |
| - Timer_poll_prohibit | | 200 | | RBS3-072 |
| - Timer_poll | | 200 | | RBS3-073 |
| - Poll_SDU | | 1 | | RBS3-074 |
| - Last transmission PDU poll | | TRUE | | RBS3-075 |
| - Last retransmission PDU poll | | TRUE | | RBS3-076 |
| - Poll_Windows | | 99 | | RBS3-077 |
| - Timer_poll_periodic | | Not Present | | RBS3-078 |
| - CHOICE Downlink RLC mode | | AM RLC | | RBS3-079 |
| - In-sequence delivery | | TRUE | | RBS3-080 |
| - Receiving window size | | 128 | | RBS3-081 |
| - Downlink RLC status info | | | | RBS3-082 |
| - Timer_status_prohibit | | 200 | | RBS3-083 |
| - Timer_EPC | | 200 | | RBS3-084 |
| - Missing PDU indicator | | TRUE | | RBS3-085 |
| - Timer_STATUS_periodic | | Not Present | | RBS3-086 |
| - RB mapping info | | | | RBS3-087 |
| - Information for each multiplexing | | 2RBMuxOptions | | RBS3-088 |
| option | | | | |
| - RLC logical channel mapping | | Not Present | | RBS3-089 |
| indicator | | | | |
| - Number of uplink RLC logical | | 1 | | RBS3-090 |
| channels | | | | |
| - Uplink transport channel type | | DCH | | RBS3-091 |
| - UL Transport channel identity | | 1 | | RBS3-092 |
| - Logical channel identity | | Not Present | | RBS3-093 |
| - CHOICE RLC size list | | Configured | | RBS3-094 |
| - MAC logical channel priority | | 8 | | RBS3-095 |
| - Downlink RLC logical channel | | | | RBS3-096 |
| info | | | | |
| - Number of downlink RLC logical | | 1 | | RBS3-097 |
| channels | | | | |
| - Downlink transport channel type | | DCH | | RBS3-098 |
| - DL DCH Transport channel | | 6 | | RBS3-099 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS3-100 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS3-101 |
| - RLC logical channel mapping | | Not Present | | RBS3-102 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| indicator | | | | |
| - Number of uplink RLC logical channels | | 1 | | RBS3-103 |
| - Uplink transport channel type | | RACH | | RBS3-104 |
| - UL Transport channel identity | | Not Present | | RBS3-105 |
| - Logical channel identity | | 7 | | RBS3-106 |
| - CHOICE RLC size list | | Explicit List | | RBS3-107 |
| - RLC size index | | Reference to clause 6 Parameter Set | | RBS3-108 |
| - MAC logical channel priority | | 8 | | RBS3-109 |
| - Downlink RLC logical channel | | | | RBS3-110 |
| info | | | | |
| - Number of downlink RLC logical channels | | 1 | | RBS3-111 |
| - Downlink transport channel type | | FACH | | RBS3-112 |
| - DL DCH Transport channel | | Not Present | | RBS3-113 |
| identity | | | | |
| - DL DSCH Transport channel | | Not Present | | RBS3-114 |
| identity | | | | |
| - Logical channel identity | | Not Present | | RBS3-115 |
| RB information to be affected list | A1,A3 | Not Present | | RBS3-116 |
| Downlink counter synchronization info | | Not Present | | RBS3-117 |
| UL Transport channel information for all transport channels | A1,A3 | | | RBS3-118 |
| - PRACH TFCS | | Not Present | | RBS3-119 |
| - CHOICE mode | | TDD | | RBS3-120 |
| - Individual UL CCTrCH | | | | RBS3-121 |
| information | | | | |
| - TFCS ID | | (This IE is repeated for TFC number.) | | RBS3-122 |
| - Allowed Transport Format | | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RBS3-123 |
| combination | | | | |
| - PRACH TFCS | | (This IE is repeated for TFC number.) | | RBS3-124 |
| - CHOICE TFCI signalling | | Normal | | RBS3-125 |
| - TFCI Field 1 information | | | | RBS3-126 |
| - TFCS complete | | | | RBS3-127 |
| reconfigure information | | | | |
| - CHOICE TFCS Size | | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set | | RBS3-128 |
| - CTFC information | | Not Present | | RBS3-129 |
| - CHOICE mode | | TDD | | RBS3-130 |
| - Individual UL CCTrCH | | Not Present | | RBS3-131 |
| information | | | | |
| Deleted UL TrCH information list | | Not Present | | RBS3-132 |
| Added or Reconfigured UL TrCH information list | A1 | 1 | | RBS3-133 |
| - Added or Reconfigured UL TrCH information | | | | RBS3-134 |
| - Uplink transport channel type | | DCH | | RBS3-135 |
| - UL Transport channel identity | | 1 | | RBS3-136 |
| - TFS | | | | RBS3-137 |
| - CHOICE Transport channel type | | Dedicated transport channels | | RBS3-138 |
| - Dynamic Transport Format | | | | RBS3-139 |
| Information | | | | |
| - RLC size | | Reference to clause 6.10 Parameter Set | | RBS3-140 |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) | | RBS3-141 |
| - Transmission Time Interval | | Not Present | | RBS3-142 |
| - Number of Transport blocks | | Reference to clause 6.10 Parameter Set | | RBS3-143 |
| - Transmission Time Interval | | Not Present | | RBS3-144 |
| - Number of Transport blocks | | 1 | | RBS3-145 |
| - CHOICE Logical channel List | | ALL | | RBS3-146 |
| - Semi-static Transport Format | | | | RBS3-147 |
| Information | | | | |
| - Transmission time interval | | Reference to clause 6.10 Parameter Set | | RBS3-148 |
| - Type of channel coding | | Reference to clause 6.10 Parameter Set | | RBS3-149 |
| - Coding Rate | | Reference to clause 6.10 Parameter Set | | RBS3-150 |
| - Rate matching attribute | | Reference to clause 6.10 Parameter Set | | RBS3-151 |
| - CRC size | | Reference to clause 6.10 Parameter Set | | RBS3-152 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|----------------------------------|--|
| CHOICE mode | A1, A3 | TDD (no data) | | RBS3-153 |
| DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters | A1,A3 | Not Present TDD Independent (Refer to clause 6) | | RBS3-154 RBS3-155 RBS3-156 RBS3-157 |
| Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value | A1,A3 | Not Present 1 DCH 6 Same as UL DCH 1 Reference to clause 6 | | RBS3-158 RBS3-159 RBS3-160 RBS3-161 RBS3-162 RBS3-163 RBS3-164 RBS3-165 RBS3-166 RBS3-167 |
| Frequency info DTX-DRX timing information DTX-DRX information HS-SCCH less information MIMO parameters Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS Id - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - CHOICE TDD option - Uplink DPCH timeslots and codes VHCR - Dynamic SF usage - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option -CHOICE Burst Type -Type 1 -Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - CHOICE TDD option | A1,A3 | Not Present Not Present Not Present Not Present 30dBm Uplink DPCH info TDD Reference to clause 6 Parameter set. Individually signalled 7.68 Mcps Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34] TDD Not Present 1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 7.68 Mcps TDD TRUE The number of an uplink timeslot that has unassigned codes. TRUE 7.68 Mcps TDD Default As defined in 3GPP TS 25.221 [28] 7.68 Mcps TDD | Rel-7 Rel-7 Rel-7 Rel-7 | RBS3-168 RBS3-169 RBS3-170 RBS3-171 RBS3-172 RBS3-173 RBS3-174 RBS3-175 RBS3-176 RBS3-177 RBS3-178 RBS3-179 RBS3-180 RBS3-181 RBS3-182 RBS3-183 RBS3-184 RBS3-185 RBS3-186 RBS3-187 RBS3-188 RBS3-189 RBS3-190 RBS3-191 RBS3-192 RBS3-193 RBS3-194 RBS3-195 RBS3-196 RBS3-197 RBS3-198 RBS3-199 RBS3-200 RBS3-201 RBS3-202 RBS3-203 RBS3-204 RBS3-205 RBS3-206 RBS3-207 RBS3-208 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|---------|----------|
| - First timeslot code list | | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBS3-209 |
| - Channelisation code | | (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBS3-210 |
| - CHOICE more timeslots | | The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned. | | RBS3-211 |
| - UL CCTrCH List to Remove CHOICE Mode | | Not Present | | RBS3-212 |
| | | TDD (no data) | | RBS3-213 |
| Downlink HS-PDSCH Information | A1,A3 | Not Present | Rel-5 | RBS3-214 |
| Downlink information common for all radio links | A1,A3 | | | RBS3-215 |
| - CHOICE DPCH info | | Downlink DPCH info common for all RL | Rel-6 | RBS3-216 |
| - Timing indicator | | Maintain | | RBS3-217 |
| - CFN-targetSFN frame offset | | Not Present | | RBS3-218 |
| - Downlink DPCH power control information | | | | RBS3-219 |
| - CHOICE mode | | TDD | | RBS3-220 |
| - TPC Step Size | | 1 | | RBS3-221 |
| - MAC-d HFN initial value | | Not Present | | RBS3-222 |
| - CHOICE mode | | TDD | | RBS3-223 |
| - CHOICE mode | | TDD | | RBS3-224 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBS3-225 |
| - Default DPCH Offset Value | | Not Present | | RBS3-226 |
| - Mac-hs reset indicator | | Not Present | | RBS3-227 |
| Downlink information for per radio link list | A1,A3 | | | RBS3-228 |
| - Downlink information for each radio link | | | | RBS3-229 |
| - CHOICE mode | | 7.68 Mcps TDD | Rel-7 | RBS3-230 |
| - Primary CCPCH info | | | | RBS3-231 |
| - CHOICE SyncCase | | Sync Case 1 | | RBS3-232 |
| - Timeslot | | PCCPCH timeslot | | RBS3-233 |
| - Cell parameters ID | | 0 | | RBS3-234 |
| - SCTD indicator | | | | RBS3-235 |
| - CHOICE DPCH info | | Downlink DPCH info for each RL | Rel-6 | RBS3-236 |
| - CHOICE mode | | TDD | | RBS3-237 |
| - DL CCTrCH List | | | | RBS3-238 |
| - TFCS ID | | 1 | | RBS3-239 |
| - Time info | | | | RBS3-240 |
| - Activation time | | (256+CFN-(CFN mod 8 + 8))mod 256 | | RBS3-241 |
| - Duration | | infinite | | RBS3-242 |
| - Common timeslot info | | | | RBS3-243 |
| - 2 nd interleaving mode | | Reference to clause 6.11 Parameter Set | | RBS3-244 |
| - TFCI coding | | Reference to clause 6.11 Parameter Set | | RBS3-245 |
| - Puncturing limit | | Reference to clause 6.11 Parameter Set | | RBS3-246 |
| - Repetition period | | Reference to clause 6.11 Parameter Set | | RBS3-247 |
| - Repetition length | | Reference to clause 6.11 Parameter Set | | RBS3-248 |
| - Downlink DPCH timeslots and codes VHCR | | | Rel-7 | RBS3-249 |
| - Individual timeslot info | | | | RBS3-250 |
| - Timeslot number | | The number of a downlink timeslot that has unassigned codes. | | RBS3-251 |
| - TFCI existence | | TRUE | | RBS3-252 |
| - Midamble shift and burst type | | | | RBS3-253 |
| - CHOICE TDD option | | 7.68 Mcps TDD | Rel-7 | RBS3-254 |
| -CHOICE Burst Type | | | | RBS3-255 |
| -Type 1 | | | | RBS3-256 |
| -Midamble | | Default | | RBS3-257 |
| Allocation Mode | | | | |
| - Midamble | | As defined in 3GPP TS 25.221 [28] | | RBS3-258 |
| configuration burst type 1 and 3 | | | | |
| - CHOICE TDD option | | 7.68 Mcps | Rel-7 | RBS3-259 |
| - First timeslot channelisation codes VHCR | | | Rel-7 | RBS3-260 |
| - First channelisation code | | (i/SF) where i is the lowest numbered code that is | | RBS3-261 |

| Information Element | Condition | Value/remark | Version | Index |
|---|-----------|--|--------------------|----------|
| - Last channelisation code | | being assigned and SF is specified in clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RBS3-262 |
| - Bitmap | | Bitmap of the codes that are being assigned in the slot. | | RBS3-263 |
| - CHOICE more timeslots | | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RBS3-264 |
| - UL CCTrCH TPC List | | Not Present | | RBS3-265 |
| - DL CCTrCH List to Remove | | Not Present | | RBS3-266 |
| -SCCPCH information for | | Not Present | R99 and Rel-4 only | RBS3-267 |
| FACH | | | | |
| - E-AGCH Info | | Not Present | Rel-6 | RBS3-268 |
| - CHOICE E-HICH Information | | Not Present | Rel-6 | RBS3-269 |
| - CHOICE E-RGCH Information | | Not Present | Rel-6 | RBS3-270 |
| MBMS PL Service Restriction Information | | Not Present | Rel-5 | RBS3-271 |

| Condition | Explanation |
|-----------|---|
| A1 | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected. |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)

| Information Element | Value/remark | Version | Index |
|------------------------------------|--|---------|----------|
| Message Type | | | RBSH-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSH-002 |
| Integrity check info | | | RBSH-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSH-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSH-005 |
| Integrity protection mode info | Not Present | | RBSH-006 |
| Ciphering mode info | Not Present | | RBSH-007 |
| Activation time | Not Present | | RBSH-008 |
| New U-RNTI | Not Present | | RBSH-009 |
| New C-RNTI | Not Present | | RBSH-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSH-011 |
| New Primary E-RNTI | Not Present | Rel-6 | RBSH-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSH-013 |
| RRC State indicator | CELL_DCH | | RBSH-014 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSH-015 |
| CN information info | Not Present | | RBSH-016 |
| URA identity | Not Present | | RBSH-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSH-018 |
| Signalling RB information to setup | Not Present | | RBSH-019 |
| RAB information for setup list | | | RBSH-020 |
| - RAB information for setup | | | RBSH-021 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSH-022 |
| - RAB identity | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSH-023 |
| - CN domain identity | PS domain | | RBSH-024 |
| - NAS Synchronization Indicator | Not Present | | RBSH-025 |
| - Re-establishment timer | UseT315 | | RBSH-026 |
| - RB information to setup | | | RBSH-027 |
| - RB identity | 25 | | RBSH-028 |
| - PDCP info | Not Present | | RBSH-029 |
| - CHOICE RLC info type | RLC info | | RBSH-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBSH-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSH-032 |
| - DL UM RLC LI size | 7 | Rel-5 | RBSH-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSH-034 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - RB mapping info | | | RBSH-035 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBSH-036 |
| - RLC logical channel mapping indicator | Not Present | | RBSH-037 |
| - Downlink RLC logical channel info | | | RBSH-038 |
| - Number of downlink RLC logical channels | 1 | | RBSH-039 |
| - Downlink transport channel type | HS-DSCH | | RBSH-040 |
| - DL DCH Transport channel identity | Not Present | | RBSH-041 |
| - DL DSCH Transport channel identity | Not Present | | RBSH-042 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSH-043 |
| - Logical channel identity | Not Present | | RBSH-044 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSH-045 |
| RB information to be affected list | Not Present | | RBSH-046 |
| Downlink counter synchronization info | Not Present | | RBSH-047 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSH-048 |
| UL Transport channel information for all transport channels | | | RBSH-049 |
| - PRACH TFCS | Not Present | | RBSH-050 |
| - CHOICE mode | TDD | | RBSH-051 |
| - Individual UL CCTrCH information | | | RBSH-052 |
| - UL TFCS Identity | | | RBSH-053 |
| - TFCS ID | 1 | | RBSH-054 |
| - Shared Channel Indicator | FALSE | | RBSH-055 |
| - UL TFCS | | | RBSH-056 |
| - CHOICE TFCI signalling | Normal | | RBSH-057 |
| - TFCI Field 1 information | | | RBSH-058 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-059 |
| - TFCS complete reconfigure information | | | RBSH-060 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-061 |
| - CTFC information | 4 TFCs | | RBSH-062 |
| - CTFC | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSH-063 |
| - Power offset information | | | RBSH-064 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBSH-065 |
| - Reference TFC ID | 0 Integer(0.. 3) | | RBSH-066 |
| - CHOICE Gain Factors | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBSH-067 |
| - CHOICE mode | TDD | | RBSH-068 |
| - Gain factor β_d | 8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBSH-069 |
| - Reference TFC ID | 0 | | RBSH-070 |
| - CHOICE mode | TDD | | RBSH-071 |
| - TFC subset | Not Present | | RBSH-072 |
| - CHOICE Subset representation | Full transport format combination set | | RBSH-073 |
| - TFC subset list | | | RBSH-074 |
| Deleted UL TrCH information list | Not Present | | RBSH-075 |
| Added or Reconfigured TrCH information list | Not Present | | RBSH-076 |
| CHOICE mode | Not Present | | RBSH-077 |
| DL Transport channel information common for all transport channel | | | RBSH-078 |
| - SCCPCH TFCS | Not Present | | RBSH-079 |
| - CHOICE mode | TDD | | RBSH-080 |
| - Individual DL CCTrCH information | 1 CCTrCh | | RBSH-081 |
| - DL TFCS identity | 1 | | RBSH-082 |
| - CHOICE DL parameters | Independent | | RBSH-083 |
| - DL TFCS | | | RBSH-084 |
| - TFCI Field 1 Information | | | RBSH-085 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-086 |
| - TFCS complete reconfigure | | | RBSH-087 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-088 |
| - CTFC information | 4 TFCs | | RBSH-089 |
| - CTFC | Reference to TS 34.122 [5] Annex C.3.1 Parameter Set | | RBSH-090 |
| - Power offset information | Not Present | | RBSH-091 |
| Deleted DL TrCH information | Not Present | | RBSH-092 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSH-093 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - Added or Reconfigured DL TrCH information | | | RBSH-094 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSH-095 |
| - DL Transport channel identity | Not Present | | RBSH-096 |
| - CHOICE DL parameters | HS-DSCH | Rel-5 | RBSH-097 |
| - HARQ Info | | Rel-5 | RBSH-098 |
| - Number of Processes | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels | Rel-5 | RBSH-099 |
| - CHOICE <i>Memory Partitioning</i> | Explicit | Rel-5 | RBSH-100 |
| - Memory size | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of HARQ Processes". | Rel-5 | RBSH-101 |
| - Process Memory Size | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | Rel-5 | RBSH-102 |
| - Added or reconfigured MAC-d flow | | Rel-5 | RBSH-103 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBSH-104 |
| - MAC-hs queue Id | 0 | Rel-5 | RBSH-105 |
| - MAC-d Flow Identity | 0 | Rel-5 | RBSH-106 |
| - T1 | 160 | Rel-5 | RBSH-107 |
| - MAC-hs window size | 16 | Rel-5 | RBSH-108 |
| - MAC-d PDU size Info | | Rel-5 | RBSH-109 |
| - MAC-d PDU size | Reference to TS34.122 [2] Annex C.4 Fixed Reference Channels | Rel-5 | RBSH-110 |
| - MAC-d PDU size index | 0 | Rel-5 | RBSH-111 |
| - MAC-hs queue to delete list | Not present | Rel-5 | RBSH-112 |
| - DCH quality target | Not present | | RBSH-113 |
| Frequency info | Not Present | | RBSH-114 |
| Maximum allowed UL TX power | 30dBm | | RBSH-115 |
| CHOICE channel requirement | Uplink DPCH info | | RBSH-116 |
| Uplink DPCH info | | Rel-6 | RBSH-117 |
| - Uplink DPCH power control info | | | RBSH-118 |
| - CHOICE mode | TDD | | RBSH-119 |
| - UL target SIR | Not present | | RBSH-120 |
| - CHOICE UL OL PC info | Broadcast UL OL PC info | | RBSH-121 |
| - CHOICE mode | TDD | | RBSH-122 |
| - Uplink Timing Advance Control | | | RBSH-123 |
| - CHOICE Timing Advance | Enabled | | RBSH-124 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSH-125 |
| - UL Timing Advance | Determined by observed timing deviation of the RACH at the node B | | RBSH-126 |
| - UL CCTrCH List | 1 CCTrCh | | RBSH-127 |
| - TFCS Id | 1 | | RBSH-128 |
| - UL target SIR | +20dB | | RBSH-129 |
| - Activation time | Not present | | RBSH-130 |
| - Duration | Not present | | RBSH-131 |
| - Common timeslot info | | | RBSH-132 |
| - 2 nd interleaving mode | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSH-133 |
| - TFCI coding | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSH-134 |
| - Puncturing Limit | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSH-135 |
| - Repetition Period | 1 | | RBSH-136 |
| - Repetition Length | 1 | | RBSH-137 |
| - Uplink DPCH timeslots and codes | | | RBSH-138 |
| - Dynamic SF usage | TRUE | | RBSH-139 |
| - Timeslot number | The number of an uplink timeslot that has unassigned codes. | | RBSH-140 |
| - TFCI existence | TRUE | | RBSH-141 |
| - Midamble shift and burst type | | | RBSH-142 |
| - CHOICE TDD option | 3.84 Mcps | | RBSH-143 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSH-144 |
| - Midamble Allocation Mode | Default | | RBSH-145 |
| - Midamble configuration | Choose lowest possible Kcell value given burst type | | RBSH-146 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSH-147 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set. | | RBSH-148 |
| - Channelisation code | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set. | | RBSH-149 |
| - CHOICE more timeslots | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which they are being assigned. | | RBSH-150 |
| - UL CCTrCH List to Remove | Not present | | RBSH-151 |
| E-DCH Info | Not present | Rel-6 | RBSH-152 |
| Downlink HS-PDSCH Information | | Rel-5 | RBSH-153 |
| - HS-SCCH Info | | Rel-5 | RBSH-154 |
| - CHOICE mode | TDD | Rel-5 | RBSH-155 |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-5 | RBSH-156 |
| - Ack-Nack Power Offset | 0dB | Rel-5 | RBSH-157 |
| - HS-SICH Power Control Info | | Rel-5 | RBSH-158 |
| - UL SIR target | 0dB | Rel-5 | RBSH-159 |
| - HS-SICH Constant Value | -10dB | Rel-5 | RBSH-160 |
| - $D_{hs-sync}$ | Not present | Rel-6 | RBSH-161 |
| - HS-SCCH Set Configuration | 4 | Rel-5 | RBSH-162 |
| - Timeslot number | The timeslot in which HS-SCCH is to be configured | Rel-5 | RBSH-163 |
| - Channelisation code | CC16/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSH-164 |
| - Midamble Allocation mode | Default | Rel-5 | RBSH-165 |
| - Midamble configuration | 8 | Rel-5 | RBSH-166 |
| - BLER target | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | Rel-5 | RBSH-167 |
| - HS-SICH configuration | | | RBSH-168 |
| - Timeslot number | The timeslot in which HS-SICH has been configured | Rel-5 | RBSH-169 |
| - Channelisation code | CC16/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSH-170 |
| - Midamble Allocation mode | Default | Rel-5 | RBSH-171 |
| - Midamble configuration | 8 | Rel-5 | RBSH-172 |
| - Measurement Feedback Info | | Rel-5 | RBSH-173 |
| - CHOICE mode | TDD | Rel-5 | RBSH-174 |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-5 | RBSH-175 |
| - HS-PDSCH Timeslot Configuration | | Rel-5 | RBSH-176 |
| - HS-PDSCH Timeslot Configuration List | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSH-177 |
| - Timeslot Number | The timeslot(s) in which HS-HS-DSCH is to be configured | Rel-5 | RBSH-178 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSH-179 |
| - Midamble Allocation Mode | Default | Rel-5 | RBSH-180 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-5 | RBSH-181 |
| Downlink information common for all radio links | Not Present | | RBSH-182 |
| Downlink information per radio link list | 1 | | RBSH-183 |
| - Downlink information for each radio link | | | RBSH-184 |
| - Choice mode | TDD | | RBSH-185 |
| - Primary CCPCH info | | | RBSH-186 |
| - Choice mode | TDD | | RBSH-187 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSH-188 |
| - CHOICE SyncCase | Sync Case 1 | | RBSH-189 |
| - Timeslot | Set to Timeslot containing PCCPCH | | RBSH-190 |
| - Cell parameters ID | 10 | | RBSH-191 |
| - SCTD indicator | FALSE | | RBSH-192 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | | RBSH-193 |
| - CHOICE mode | TDD | | RBSH-194 |
| - DL CCTrCH List | 1 CCTrCh | | RBSH-195 |
| - TFCS ID | 1 | | RBSH-196 |
| - Activation time | Not Present | | RBSH-197 |
| - Duration | Not Present | | RBSH-198 |
| - Common timeslot info | | | RBSH-199 |
| - 2nd interleaving mode | Reference to TS 34.122 clause C.3.1 Parameter | | RBSH-200 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - TFCI coding | Set Reference to TS 34.122 clause C.3.1 Parameter Set | | RBSH-201 |
| - Puncturing Limit | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBSH-202 |
| - Repetition Period | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBSH-203 |
| - Repetition Length | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBSH-204 |
| - Downlink DPCH timeslots and codes | | | RBSH-205 |
| - Individual timeslot info | | | RBSH-206 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes. | | RBSH-207 |
| - TFCI existence | TRUE | | RBSH-208 |
| - Midamble shift and burst type | | | RBSH-209 |
| - CHOICE TDD option | 3.84 Mcps | | RBSH-210 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBSH-211 |
| - Midamble Allocation Mode | Default | | RBSH-212 |
| - Midamble configuration | Set Kcell to lowest possible value given the number of codes defined in TS 34.122 clause C.3.1 Parameter Set | | RBSH-213 |
| - CHOICE TDD option | 3.84 Mcps | | RBSH-214 |
| - First timeslot channelisation codes | | | RBSH-215 |
| - CHOICE codes representation | Consecutive codes | | RBSH-216 |
| - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS 34.122 clause C.3.1 Parameter Set. | | RBSH-217 |
| - Last channelisation code | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in TS 34.122 clause C.3.1 Parameter Set. | | RBSH-218 |
| - CHOICE more timeslots | The presence of this IE depends upon whether the requirements of TS 34.122 clause C.3.1 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RBSH-219 |
| - UL CCTrCH TPC List | No Present | | RBSH-220 |
| - DL CCTrCH List to Remove | Not Present | | RBSH-221 |
| - E-AGCH Info | Not Present | Rel-6 | RBSH-222 |
| - CHOICE E-HICH Information | Not Present | Rel-6 | RBSH-223 |
| - CHOICE E-RGCH Information | Not Present | Rel-6 | RBSH-224 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBSH-225 |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA) (1.28 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|------------------------------------|--|---------|----------|
| Message Type | | | RBSH-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSH-002 |
| Integrity check info | | | RBSH-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSH-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSH-005 |
| Integrity protection mode info | Not Present | | RBSH-006 |
| Ciphering mode info | Not Present | | RBSH-007 |
| Activation time | Not Present | | RBSH-008 |
| New U-RNTI | Not Present | | RBSH-009 |
| New C-RNTI | Not Present | | RBSH-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSH-011 |
| RRC State indicator | CELL_DCH | | RBSH-012 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSH-013 |
| CN information info | Not Present | | RBSH-014 |
| URA identity | Not Present | | RBSH-015 |
| Signalling RB information to setup | Not Present | | RBSH-016 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| RAB information for setup list | | | RBSH-017 |
| - RAB information for setup | | | RBSH-018 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSH-019 |
| - RAB identity | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSH-020 |
| - CN domain identity | PS domain | | RBSH-021 |
| - NAS Synchronization Indicator | Not Present | | RBSH-022 |
| - Re-establishment timer | UseT315 | | RBSH-023 |
| - RB information to setup | | | RBSH-024 |
| - RB identity | 25 | | RBSH-025 |
| - PDCP info | Not Present | | RBSH-026 |
| - CHOICE RLC info type | RLC info | | RBSH-027 |
| - CHOICE Uplink RLC mode | Not Present | | RBSH-028 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSH-029 |
| - DL UM RLC LI size | 7 | Rel-5 | RBSH-030 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSH-031 |
| - RB mapping info | | | RBSH-032 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBSH-033 |
| - RLC logical channel mapping indicator | Not Present | | RBSH-034 |
| - Downlink RLC logical channel info | | | RBSH-035 |
| - Number of downlink RLC logical channels | 1 | | RBSH-036 |
| - Downlink transport channel type | HS-DSCH | | RBSH-037 |
| - DL DCH Transport channel identity | Not Present | | RBSH-038 |
| - DL DSCH Transport channel identity | Not Present | | RBSH-039 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSH-040 |
| - Logical channel identity | Not Present | | RBSH-041 |
| RB information to be affected list | Not Present | | RBSH-042 |
| Downlink counter synchronization info | Not Present | | RBSH-043 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSH-044 |
| UL Transport channel information for all transport channels | | | RBSH-045 |
| - PRACH TFCS | Not Present | | RBSH-046 |
| - CHOICE mode | TDD | | RBSH-047 |
| - Individual UL CCTrCH information | | | RBSH-048 |
| - UL TFCS Identity | | | RBSH-049 |
| - TFCS ID | 1 | | RBSH-050 |
| - Shared Channel Indicator | FALSE | | RBSH-051 |
| - UL TFCS | | | RBSH-052 |
| - CHOICE TFCI signalling | Normal | | RBSH-053 |
| - TFCI Field 1 Information | | | RBSH-054 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-055 |
| - TFCS complete reconfiguration information | | | RBSH-056 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-057 |
| - CTFC information | 4 TFCs | | RBSH-058 |
| - CTFC | Reference to clause TS 34.122 clause C.2.1 Parameter Set | | RBSH-059 |
| - Power offset information | | | RBSH-060 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBSH-061 |
| - Reference TFC ID | 0 Integer(0.. 3) | | RBSH-062 |
| - CHOICE Gain Factors | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBSH-063 |
| - CHOICE mode | TDD | | RBSH-064 |
| - Gain Factor β_d | 15 | | RBSH-065 |
| - Reference TFC ID | 0 Integer(0.. 3) | | RBSH-066 |
| - CHOICE mode | TDD | | RBSH-067 |
| - TFC subset | | | RBSH-068 |
| - CHOICE Subset representation | Full transport format combination set | | RBSH-069 |
| - TFC subset list | Not Present | | RBSH-070 |
| Deleted UL TrCH information list | Not Present | | RBSH-071 |
| Added or Reconfigured TrCH information list | Not Present | | RBSH-072 |
| CHOICE mode | Not Present | | RBSH-073 |

| Information Element | Value/remark | Version | Index |
|---|--|-------------------|----------|
| DL Transport channel information common for all transport channel | | | RBSH-074 |
| - SCCPCH TFCS | Not Present | | RBSH-075 |
| - CHOICE mode | TDD | | RBSH-076 |
| - Individual DL CCTrCH information | | | RBSH-077 |
| - DL TFCS Identity | | | RBSH-078 |
| - TFCS ID | 2 | | RBSH-079 |
| - Shared Channel Indicator | FALSE | | RBSH-080 |
| - CHOICE DL parameters | Explicit | | RBSH-081 |
| - DL DCH TFCS | | | RBSH-082 |
| - CHOICE TFCI Signalling | Normal | | RBSH-083 |
| - TFCI Field 1 Information | | | RBSH-084 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBSH-085 |
| - TFCS complete reconfigure | | | RBSH-086 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBSH-087 |
| - CTFC information | 4 TFCS | | RBSH-088 |
| - CTFC | Reference to clause TS 34.122 clause C.2.1 Parameter Set | | RBSH-089 |
| - Power offset information | Not Present | | RBSH-090 |
| Deleted DL TrCH information | Not Present | | RBSH-091 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSH-092 |
| - Added or Reconfigured DL TrCH information | (HS-DSCH for DTCH) | | RBSH-093 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSH-094 |
| - DL Transport channel identity | Not Present | | RBSH-095 |
| - CHOICE DL parameters | HS-DSCH | | RBSH-096 |
| - HARQ Info | | Rel-5 | RBSH-097 |
| - Number of Processes | Reference to TS34.122 [5] Annex C Fixed Reference Channels | | RBSH-098 |
| - CHOICE <i>Memory Partitioning</i> | Implicit | | RBSH-099 |
| - Added or reconfigured MAC-d flow | | | RBSH-100 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBSH-101 |
| - MAC-hs queue Id | 0 | | RBSH-102 |
| - MAC-d Flow Identity | 0 | | RBSH-103 |
| - T1 | 50 | | RBSH-104 |
| - MAC-hs window size | 16 | | RBSH-105 |
| - MAC-d PDU size Info | | | RBSH-106 |
| - MAC-d PDU size | Reference to TS34.122 [5] Annex C Fixed Reference Channels | | RBSH-107 |
| - MAC-d PDU size index | 0 | | RBSH-108 |
| - MAC-hs queue to delete list | Not present | | RBSH-109 |
| - DCH quality target | Not present | | RBSH-110 |
| Frequency info | Not Present | | RBSH-111 |
| Maximum allowed UL TX power | 33dBm | | RBSH-112 |
| CHOICE channel requirement | Uplink DPCH info | Rel-5 and earlier | RBSH-113 |
| - Uplink DPCH power control info | | | RBSH-114 |
| - CHOICE mode | TDD | | RBSH-115 |
| - CHOICE TDD option | 1.28 Mcps TDD | | RBSH-116 |
| - PRXPDPCHdes | Integer (-120...-58 by step of 1) | | RBSH-117 |
| - CHOICE <i>UL OL PC info</i> | | | RBSH-118 |
| - Broadcast UL OL PC info | Null | | RBSH-119 |
| - Uplink Timing Advance Control | Not Present | | RBSH-120 |
| - UL CCTrCH List | | | RBSH-121 |
| - TFCS ID | 1 | | RBSH-122 |
| - UL Target SIR | Real (-11 .. 20 by step of 0.5 dB) Reference to clause 6 Parameter set. | | RBSH-123 |
| - Time info | | | RBSH-124 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RBSH-125 |
| - Duration | Infinite | | RBSH-126 |
| - Common timeslot info | | | RBSH-127 |
| - 2 nd interleaving mode | Default value is "Frame" | | RBSH-128 |
| - TFCI coding | Reference to clause 6 Parameter set | | RBSH-129 |
| - Puncturing limit | Reference to clause 6 Parameter set | | RBSH-130 |

| Information Element | Value/remark | Version | Index |
|----------------------------------|---|--------------------|----------|
| - Repetition period | 1 | | RBSH-131 |
| - Repetition length | | | RBSH-132 |
| - Uplink DPCH timeslots and code | | | RBSH-133 |
| - Dynamic SF usage | FALSE | | RBSH-134 |
| - First individual timeslot info | | | RBSH-135 |
| - Timeslot number | | | RBSH-136 |
| - CHOICE TDD option | 1.28 Mcps TDD | | RBSH-137 |
| - Timeslot number | 1 OR 2 OR 3 | | RBSH-138 |
| - TFCI existence | TRUE | | RBSH-139 |
| - Midamble shift and burst type | | | RBSH-140 |
| - CHOICE TDD option | 1.28 Mcps TDD | | RBSH-141 |
| - Midamble allocation mode | Default midamble | | RBSH-142 |
| - Midamble configuration | 16 | | RBSH-143 |
| - Midamble Shift | Not Present | | RBSH-144 |
| - CHOICE TDD option | 1.28 Mcps TDD | | RBSH-145 |
| - Modulation | QPSK | | RBSH-146 |
| - SS-TPC Symbols | 1 | | RBSH-147 |
| - Additional TPC-SS Symbols | Not present | | RBSH-148 |
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBSH-149 |
| - channelisation codes | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RBSH-150 |
| - CHOICE more timeslots | No more timeslots | | RBSH-151 |
| - UL CCTrCH List to Remove | Not present | | RBSH-152 |
| CHOICE Mode | TDD | R99 and Rel-4 only | RBSH-153 |
| - Downlink PDSCH information | Not Present | R99 and Rel-4 only | RBSH-154 |
| Downlink HS-PDSCH Information | | | RBSH-155 |
| - HS-SCCH Info | | | RBSH-156 |
| - CHOICE mode | TDD | | RBSH-157 |
| - CHOICE TDD option | 1.28 Mcps | | RBSH-158 |
| - HS-SCCH Set Configuration | | | RBSH-159 |
| - Timeslot number | 0 | | RBSH-160 |
| - First Channelisation code | (16/5) | | RBSH-161 |
| - Second Channelisation code | (16/6) | | RBSH-162 |
| - Midamble Allocation mode | Default midamble | | RBSH-163 |
| - Midamble configuration | 8 | | RBSH-164 |
| - BLER target | -2.0 | | RBSH-165 |
| - HS-SICH configuration | | | RBSH-166 |
| - Timeslot number | 1 | | RBSH-167 |
| - Channelisation code | (16/11) | | RBSH-168 |
| - Midamble Allocation mode | Default midamble | | RBSH-169 |
| - Midamble configuration | 8 | | RBSH-170 |
| - Ack-Nack Power Offset | 0 | | RBSH-171 |
| - PRX _{HS-SICH} | | | RBSH-172 |
| - TPC step size | 1dB | | RBSH-173 |
| - Timeslot number | 0 | | RBSH-174 |
| - First Channelisation code | (16/7) | | RBSH-175 |
| - Second Channelisation code | (16/8) | | RBSH-176 |
| - Midamble Allocation mode | Default midamble | | RBSH-177 |
| - Midamble configuration | 8 | | RBSH-178 |
| - BLER target | -2.0 | | RBSH-179 |
| - HS-SICH configuration | | | RBSH-180 |
| - Timeslot number | 1 | | RBSH-181 |
| - Channelisation code | (16/12) | | RBSH-182 |
| - Midamble Allocation mode | Default midamble | | RBSH-183 |
| - Midamble configuration | 8 | | RBSH-184 |
| - Ack-Nack Power Offset | 0 | | RBSH-185 |
| - PRX _{HS-SICH} | | | RBSH-186 |
| - TPC step size | 1dB | | RBSH-187 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - Timeslot number | 0 | | RBSH-188 |
| - First Channelisation code | (16/9) | | RBSH-189 |
| - Second Channelisation code | (16/10) | | RBSH-190 |
| - Midamble Allocation mode | Default midamble | | RBSH-191 |
| - Midamble configuration | 8 | | RBSH-192 |
| - BLER target | -2.0 | | RBSH-193 |
| - HS-SICH configuration | | | RBSH-194 |
| - Timeslot number | 1 | | RBSH-195 |
| - Channelisation code | (16/13) | | RBSH-196 |
| - Midamble Allocation mode | Default midamble | | RBSH-197 |
| - Midamble configuration | 8 | | RBSH-198 |
| - Ack-Nack Power Offset | 0 | | RBSH-199 |
| - PRX _{HS-SICH} | | | RBSH-200 |
| - TPC step size | 1dB | | RBSH-201 |
| - Timeslot number | 0 | | RBSH-202 |
| - First Channelisation code | (16/11) | | RBSH-203 |
| - Second Channelisation code | (16/12) | | RBSH-204 |
| - Midamble Allocation mode | Default midamble | | RBSH-205 |
| - Midamble configuration | 8 | | RBSH-206 |
| - BLER target | -2.0 | | RBSH-207 |
| - HS-SICH configuration | | | RBSH-208 |
| - Timeslot number | 1 | | RBSH-209 |
| - Channelisation code | (16/14) | | RBSH-210 |
| - Midamble Allocation mode | Default midamble | | RBSH-211 |
| - Midamble configuration | 8 | | RBSH-212 |
| - Ack-Nack Power Offset | 0 | | RBSH-213 |
| - PRX _{HS-SICH} | | | RBSH-214 |
| - TPC step size | 1dB | | RBSH-215 |
| Downlink information common for all radio links | Not Present | | RBSH-216 |
| Downlink information per radio link list | | | RBSH-217 |
| - Downlink information for each radio link | | | RBSH-218 |
| - CHOICE mode | TDD | | RBSH-219 |
| - Downlink information for each radio link | | | RBSH-220 |
| - Choice mode | 2 Integer(1.8) | | RBSH-221 |
| - Primary CCPCH info | | | RBSH-222 |
| - Choice mode | Now | | RBSH-223 |
| - Choice TDD Option | Infinite | | RBSH-224 |
| - TSTD indicator | | | RBSH-225 |
| - Cell parameters ID | Default value is "Frame" | | RBSH-226 |
| - SCTD indicator | Reference to clause 6 Parameter set | | RBSH-227 |
| - Downlink DPCH info for each RL | Reference to clause 6 Parameter set | | RBSH-228 |
| - CHOICE mode | 1 | | RBSH-229 |
| - DL CCTrCh List | NULL | | RBSH-230 |
| - TFCS ID | | | RBSH-231 |
| - Time info | | | RBSH-232 |
| - Activation time | | | RBSH-233 |
| - Duration | 1.28 Mcps TDD | | RBSH-234 |
| - Common timeslot info | 4 OR 5 OR 6 | | RBSH-235 |
| - 2 nd interleaving mode | TRUE | | RBSH-236 |
| - TFCI coding | | | RBSH-237 |
| - Puncturing limit | 1.28 Mcps TDD | | RBSH-238 |
| - Repetition period | Default midamble | | RBSH-239 |
| - Repetition length | 16 | | RBSH-240 |
| - Downlink DPCH timeslots and codes | Not Present | | RBSH-241 |
| - First individual timeslot info | 1.28 Mcps TDD | | RBSH-242 |
| - Timeslot number | QPSK | | RBSH-243 |
| - CHOICE TDD option | 1 | | RBSH-244 |
| - Timeslot number | Not present | | RBSH-245 |
| - TFCI existence | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RBSH-246 |
| - Midamble shift and burst type | | | RBSH-247 |
| - CHOICE TDD option | Reference to clause 6.11 Parameter Set | | RBSH-248 |

| Information Element | Value/remark | Version | Index |
|---------------------------------------|---|--------------------|----------|
| - Midamble allocation mode | No more timeslots | | RBSH-249 |
| - Midamble configuration | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. | | RBSH-250 |
| - Midamble Shift | | | RBSH-251 |
| - CHOICE TDD option | 1 | | RBSH-252 |
| - Modulation | FALSE | | RBSH-253 |
| - SS-TPC Symbols | Not present | | RBSH-254 |
| - Additional TPC-SS Symbols | Not Present | | RBSH-255 |
| - First timeslot channelisation codes | TDD | | RBSH-256 |
| - CHOICE codes representation | | | RBSH-257 |
| - Channelisation codes bitmap | 2 Integer(1.8) | | RBSH-258 |
| - CHOICE more timeslots | | | RBSH-259 |
| - UL CCTrCH TPC List | Now | | RBSH-260 |
| - UL TPC TFCS Identity | Infinite | | RBSH-261 |
| - TFCS ID | | | RBSH-262 |
| - Shared Channel Indicator | Default value is "Frame" | | RBSH-263 |
| - DL CCTrCH List to Remove | Reference to clause 6 Parameter set | | RBSH-264 |
| - SCCPCH Information for FACH | Reference to clause 6 Parameter set | R99 and Rel-4 only | RBSH-265 |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA) (7.68 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|--|--|----------------|----------|
| Message Type | | | RBS7-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBS7-002 |
| Integrity check info | | | RBS7-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBS7-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBS7-005 |
| Integrity protection mode info | Not Present | | RBS7-006 |
| Ciphering mode info | Not Present | | RBS7-007 |
| Activation time | Not Present | | RBS7-008 |
| New U-RNTI | Not Present | | RBS7-009 |
| New C-RNTI | Not Present | | RBS7-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBS7-011 |
| CHOICE mode | TDD | Rel-7 | RBS7-012 |
| New E-RNTI | Not Present | Rel-7 | RBS7-013 |
| RRC State indicator | CELL_DCH | | RBS7-014 |
| UTRAN DRX cycle length coefficient | Not Present | | RBS7-015 |
| CN information info | Not Present | | RBS7-016 |
| URA identity | Not Present | | RBS7-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBS7-018 |
| Signalling RB information to setup | Not Present | | RBS7-019 |
| RAB information for setup list | | | RBS7-020 |
| - RAB information for setup | | | RBS7-021 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBS7-022 |
| - RAB identity | 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBS7-023 |
| - CN domain identity | PS domain | | RBS7-024 |
| - NAS Synchronization Indicator | Not Present | | RBS7-025 |
| - Re-establishment timer | UseT315 | | RBS7-026 |
| - RB information to setup | | | RBS7-027 |
| - RB identity | 25 | | RBS7-028 |
| - PDCP info | Not Present | | RBS7-029 |
| - CHOICE RLC info type | RLC info | | RBS7-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBS7-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBS7-032 |
| - DL UM RLC LI size | 7 | | RBS7-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 Rel-5 | RBS7-034 |
| - RB mapping info | | | RBS7-035 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBS7-036 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - RLC logical channel mapping indicator | Not Present | | RBS7-037 |
| - Downlink RLC logical channel info | | | RBS7-038 |
| - Number of downlink RLC logical channels | 1 | | RBS7-039 |
| - Downlink transport channel type | HS-DSCH | | RBS7-040 |
| - DL DCH Transport channel identity | Not Present | | RBS7-041 |
| - DL DSCH Transport channel identity | Not Present | | RBS7-042 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBS7-043 |
| - Logical channel identity | Not Present | | RBS7-044 |
| RB information to reconfigure list | Not Present | Rel-6 | RBS7-045 |
| RB information to be affected list | Not Present | | RBS7-046 |
| Downlink counter synchronization info | Not Present | | RBS7-047 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBS7-048 |
| UL Transport channel information for all transport channels | | | RBS7-049 |
| - PRACH TFCS | Not Present | | RBS7-050 |
| - CHOICE mode | TDD | | RBS7-051 |
| - Individual UL CCTrCH information | | | RBS7-052 |
| - UL TFCS Identity | | | RBS7-053 |
| - TFCS ID | 1 | | RBS7-054 |
| - Shared Channel Indicator | FALSE | | RBS7-055 |
| - UL TFCS | | | RBS7-056 |
| - CHOICE TFCS signalling | Normal | | RBS7-057 |
| - TFCS Field 1 information | | | RBS7-058 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBS7-059 |
| - TFCS complete reconfigure information | | | RBS7-060 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBS7-061 |
| - CTFC information | 4 TFCS | | RBS7-062 |
| - CTFC | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBS7-063 |
| - Power offset information | | | RBS7-064 |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) | | RBS7-065 |
| - Reference TFC ID | 0 Integer(0.. 3) | | RBS7-066 |
| - CHOICE Gain Factors | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) | | RBS7-067 |
| - CHOICE mode | TDD | | RBS7-068 |
| - Gain factor β_d | 8 | | RBS7-069 |
| - Reference TFC ID | (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) | | RBS7-070 |
| - CHOICE mode | 0 | | RBS7-071 |
| - TFC subset | TDD | | RBS7-072 |
| - CHOICE Subset representation | Not Present | | RBS7-073 |
| - TFC subset list | Full transport format combination set | | RBS7-074 |
| Deleted UL TrCH information list | Not Present | | RBS7-075 |
| Added or Reconfigured TrCH information list | Not Present | | RBS7-076 |
| CHOICE mode | Not Present | | RBS7-077 |
| DL Transport channel information common for all transport channel | | | RBS7-078 |
| - SCCPCH TFCS | Not Present | | RBS7-079 |
| - CHOICE mode | TDD | | RBS7-080 |
| - Individual DL CCTrCH information | 1 CCTrCh | | RBS7-081 |
| - DL TFCS identity | 1 | | RBS7-082 |
| - CHOICE DL parameters | Independent | | RBS7-083 |
| - DL TFCS | | | RBS7-084 |
| - TFCS Field 1 Information | | | RBS7-085 |
| - CHOICE TFCS representation | Complete reconfiguration | | RBS7-086 |
| - TFCS complete reconfigure | | | RBS7-087 |
| - CHOICE CTFC Size | 2 bit CTFC | | RBS7-088 |
| - CTFC information | 4 TFCS | | RBS7-089 |
| - CTFC | Reference to TS 34.122 [5] Annex C.3.1 Parameter Set | | RBS7-090 |
| - Power offset information | Not Present | | RBS7-091 |
| Deleted DL TrCH information | Not Present | | RBS7-092 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBS7-093 |
| - Added or Reconfigured DL TrCH information | | | RBS7-094 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBS7-095 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - DL Transport channel identity | Not Present | | RBS7-096 |
| - CHOICE DL parameters | HS-DSCH | Rel-5 | RBS7-097 |
| - HARQ Info | | Rel-5 | RBS7-098 |
| - Number of Processes | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels | Rel-5 | RBS7-099 |
| - CHOICE <i>Memory Partitioning</i> | Explicit | Rel-5 | RBS7-100 |
| - Memory size | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of HARQ Processes". | Rel-5 | RBS7-101 |
| - Process Memory Size | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | Rel-5 | RBS7-102 |
| - Added or reconfigured MAC-d flow | | Rel-5 | RBS7-103 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBS7-104 |
| - MAC-hs queue Id | 0 | Rel-5 | RBS7-105 |
| - MAC-d Flow Identity | 0 | Rel-5 | RBS7-106 |
| - T1 | 160 | Rel-5 | RBS7-107 |
| - MAC-hs window size | 16 | Rel-5 | RBS7-108 |
| - MAC-d PDU size Info | | Rel-5 | RBS7-109 |
| - MAC-d PDU size | Reference to TS34.122 [2] Annex C.4 Fixed Reference Channels | Rel-5 | RBS7-110 |
| - MAC-d PDU size index | 0 | Rel-5 | RBS7-111 |
| - MAC-hs queue to delete list | Not present | Rel-5 | RBS7-112 |
| - DCH quality target | Not present | | RBS7-113 |
| Frequency info | Not Present | | RBS7-114 |
| DTX-DRX timing information | Not Present | Rel-7 | RBS7-115 |
| DTX-DRX information | Not Present | Rel-7 | RBS7-116 |
| HS-SCCH less information | Not Present | Rel-7 | RBS7-117 |
| MIMO parameters | Not Present | Rel-7 | RBS7-118 |
| Maximum allowed UL TX power | 30dBm | | RBS7-119 |
| CHOICE channel requirement | Uplink DPCH info | | RBS7-120 |
| Uplink DPCH info | | Rel-6 | RBS7-121 |
| - Uplink DPCH power control info | | | RBS7-122 |
| - CHOICE mode | TDD | | RBS7-123 |
| - UL target SIR | Not present | | RBS7-124 |
| - CHOICE UL OL PC info | Broadcast UL OL PC info | | RBS7-125 |
| - CHOICE mode | TDD | | RBS7-126 |
| - Uplink Timing Advance Control | | | RBS7-127 |
| - CHOICE Timing Advance | Enabled | | RBS7-128 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-129 |
| - UL Timing Advance | Determined by observed timing deviation of the RACH at the node B | | RBS7-130 |
| - UL CCTrCh List | 1 CCTrCh | | RBS7-131 |
| - TFCS Id | 1 | | RBS7-132 |
| - UL target SIR | +20dB | | RBS7-133 |
| - Activation time | Not present | | RBS7-134 |
| - Duration | Not present | | RBS7-135 |
| - Common timeslot info | | | RBS7-136 |
| - 2 nd interleaving mode | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBS7-137 |
| - TFCI coding | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBS7-138 |
| - Puncturing Limit | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBS7-139 |
| - Repetition Period | 1 | | RBS7-140 |
| - Repetition Length | 1 | | RBS7-141 |
| - CHOICE mode | 7.68 Mcps TDD | Rel-7 | RBS7-142 |
| - Uplink DPCH timeslots and codes VHCR | | Rel-7 | RBS7-143 |
| - Dynamic SF usage | TRUE | | RBS7-144 |
| - Timeslot number | The number of an uplink timeslot that has unassigned codes. | | RBS7-145 |
| - TFCI existence | TRUE | | RBS7-146 |
| - Midamble shift and burst type | | | RBS7-147 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-148 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBS7-149 |
| - Midamble Allocation Mode | Default | | RBS7-150 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - Midamble configuration | Choose lowest possible Kcell value given burst type | | RBS7-151 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-152 |
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set. | | RBS7-153 |
| - Channelisation code | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set. | | RBS7-154 |
| - CHOICE more timeslots | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which they are being assigned. | | RBS7-155 |
| - UL CCTrCH List to Remove | Not present | | RBS7-156 |
| E-DCH Info | Not present | Rel-6 | RBS7-157 |
| Downlink HS-PDSCH Information | | Rel-5 | RBS7-158 |
| - HS-SCCH Info | | Rel-5 | RBS7-159 |
| - CHOICE mode | TDD | Rel-5 | RBS7-160 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-161 |
| - Ack-Nack Power Offset | 0dB | Rel-5 | RBS7-162 |
| - HS-SICH Power Control Info | | Rel-5 | RBS7-163 |
| - UL SIR target | 0dB | Rel-5 | RBS7-164 |
| - HS-SICH Constant Value | -10dB | Rel-5 | RBS7-165 |
| - $D_{hs-sync}$ | Not present | Rel-6 | RBS7-166 |
| - HS-SCCH Set Configuration | 4 | Rel-5 | RBS7-167 |
| - Timeslot number | The timeslot in which HS-SCCH is to be configured | Rel-5 | RBS7-168 |
| - Channelisation code | CC32/x where x is a previously unassigned channelisation code in this TS | Rel-7 | RBS7-169 |
| - Midamble Allocation mode | Default | Rel-5 | RBS7-170 |
| - Midamble configuration | 8 | Rel-5 | RBS7-171 |
| - BLER target | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | Rel-5 | RBS7-172 |
| - HS-SICH configuration | | | RBS7-173 |
| - Timeslot number | The timeslot in which HS-SICH has been configured | Rel-5 | RBS7-174 |
| - Channelisation code | CC32/x where x is a previously unassigned channelisation code in this TS | Rel-7 | RBS7-175 |
| - Midamble Allocation mode | Default | Rel-5 | RBS7-176 |
| - Midamble configuration | 8 | Rel-5 | RBS7-177 |
| - Measurement Feedback Info | | Rel-5 | RBS7-178 |
| - CHOICE mode | TDD | Rel-5 | RBS7-179 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-180 |
| - HS-PDSCH Timeslot Configuration VHCR | | Rel-5 | RBS7-181 |
| - HS-PDSCH Timeslot Configuration List | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBS7-182 |
| - Timeslot Number | The timeslot(s) in which HS-HS-DSCH is to be configured | Rel-5 | RBS7-183 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBS7-184 |
| - Midamble Allocation Mode | Default | Rel-5 | RBS7-185 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-5 | RBS7-186 |
| Downlink information common for all radio links | Not Present | | RBS7-187 |
| Downlink information for each radio link list | 1 | | RBS7-188 |
| - Downlink information for each radio link | | | RBS7-189 |
| - Choice mode | 7.68 Mcps TDD | Rel-7 | RBS7-190 |
| - Primary CCPCH info | | | RBS7-191 |
| - Choice mode | TDD | | RBS7-192 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-7 | RBS7-193 |
| - CHOICE SyncCase | Sync Case 1 | | RBS7-194 |
| - Timeslot | Set to Timeslot containing PCCPCH | | RBS7-195 |
| - Cell parameters ID | 10 | | RBS7-196 |
| - SCTD indicator | FALSE | | RBS7-197 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | | RBS7-198 |
| - CHOICE mode | TDD | | RBS7-199 |
| - DL CCTrCH List | 1 CCTrCh | | RBS7-200 |
| - TFCS ID | 1 | | RBS7-201 |
| - Activation time | Not Present | | RBS7-202 |

| Information Element | Value/remark | Version | Index |
|--|--|---------|----------|
| - Duration | Not Present | | RBS7-203 |
| - Common timeslot info | | | RBS7-204 |
| - 2 nd interleaving mode | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-205 |
| - TFCI coding | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-206 |
| - Puncturing Limit | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-207 |
| - Repetition Period | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-208 |
| - Repetition Length | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-209 |
| - Downlink DPCH timeslots and codes VHCR | | Rel-7 | RBS7-210 |
| - Individual timeslot info | | | RBS7-211 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes. | | RBS7-212 |
| - TFCI existence | TRUE | | RBS7-213 |
| - Midamble shift and burst type | | | RBS7-214 |
| - CHOICE TDD option | 7.68 Mcps | | RBS7-215 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.3.1 Parameter Set | | RBS7-216 |
| - Midamble Allocation Mode | Default | | RBS7-217 |
| - Midamble configuration | Set Kcell to lowest possible value given the number of codes defined in TS 34.122 clause C.3.1 Parameter Set | | RBS7-218 |
| - CHOICE TDD option | 7.68 Mcps | Rel-7 | RBS7-219 |
| - First timeslot channelisation codes VHCR | | Rel-7 | RBS7-220 |
| - CHOICE codes representation | Consecutive codes | | RBS7-221 |
| - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS 34.122 clause C.3.1 Parameter Set. | | RBS7-222 |
| - Last channelisation code | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in TS 34.122 clause C.3.1 Parameter Set. | | RBS7-223 |
| - CHOICE more timeslots | The presence of this IE depends upon whether the requirements of TS 34.122 clause C.3.1 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RBS7-224 |
| - UL CCTrCH TPC List | No Present | | RBS7-225 |
| - DL CCTrCH List to Remove | Not Present | | RBS7-226 |
| - E-AGCH Info | Not Present | Rel-6 | RBS7-227 |
| - CHOICE E-HICH Information | Not Present | Rel-6 | RBS7-228 |
| - CHOICE E-RGCH Information | Not Present | Rel-6 | RBS7-229 |
| MBMS PL Service Restriction Information | Not Present | Rel-6 | RBS7-230 |

Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) (3.84Mcps TDD)

| Information Element | Value/remark | Version | Index |
|--------------------------------|--|---------|-----------|
| Message Type | | | RBSE3-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSE3-002 |
| Integrity check info | | | RBSE3-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSE3-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSE3-005 |
| Integrity protection mode info | Not Present | | RBSE3-006 |
| Ciphering mode info | Not Present | | RBSE3-007 |
| Activation time | Not Present | | RBSE3-008 |
| New U-RNTI | Not Present | | RBSE3-009 |
| New C-RNTI | Not Present | | RBSE3-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSE3-011 |
| New Primary E-RNTI | '1010 1010 1010 1010' | Rel-6 | RBSE3-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSE3-013 |
| RRC State indicator | CELL_DCH | | RBSE3-014 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------------|-----------|
| UTRAN DRX cycle length coefficient | Not Present | | RBSE3-015 |
| CN information info | Not Present | | RBSE3-016 |
| URA identity | Not Present | | RBSE3-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSE3-018 |
| Signalling RB information to setup | Not Present | | RBSE3-019 |
| RAB information for setup list | | | RBSE3-020 |
| - RAB information for setup | | | RBSE3-021 |
| - RAB info | (high-speed UM DTCH for PS domain) | | RBSE3-022 |
| - RAB identity | 0000 0110B | | RBSE3-023 |
| | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | |
| - CN domain identity | PS domain | | RBSE3-024 |
| - NAS Synchronization Indicator | Not Present | | RBSE3-025 |
| - Re-establishment timer | UseT315 | | RBSE3-026 |
| - RB information to setup | | | RBSE3-027 |
| - RB identity | 25 | | RBSE3-028 |
| - PDCP info | Not Present | | RBSE3-029 |
| - CHOICE RLC info type | RLC info | | RBSE3-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBSE3-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSE3-032 |
| - DL UM RLC LI size | 7 | Rel-5 | RBSE3-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSE3-034 |
| - RB mapping info | | | RBSE3-035 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBSE3-036 |
| - RLC logical channel mapping indicator | Not Present | | RBSE3-037 |
| - Downlink RLC logical channel info | | | RBSE3-038 |
| - Number of downlink RLC logical channels | 1 | | RBSE3-039 |
| - Downlink transport channel type | HS-DSCH | | RBSE3-040 |
| - DL DCH Transport channel identity | Not Present | | RBSE3-041 |
| - DL DSCH Transport channel identity | Not Present | | RBSE3-042 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSE3-043 |
| - Logical channel identity | Not Present | | RBSE3-044 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSE3-045 |
| RB information to be affected list | Not Present | | RBSE3-046 |
| Downlink counter synchronization info | Not Present | | RBSE3-047 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSE3-048 |
| UL Transport channel information for all transport channels | Not Present | | RBSE3-049 |
| Deleted UL TrCH information list | Not Present | | RBSE3-050 |
| Added or Reconfigured TrCH information list | | | RBSE3-051 |
| - Uplink transport channel type | E-DCH | | RBSE3-052 |
| - CHOICE UL parameters | E-DCH | | RBSE3-053 |
| - CHOICE mode | TDD | | RBSE3-054 |
| - HARQ info for E-DCH | | | RBSE3-055 |
| - CHOICE UL parameters | E-DCH | | RBSE3-056 |
| - HARQ RV Configuration | rvtable | | RBSE3-057 |
| - Added or reconfigured E-DCH MAC-d flow | | | RBSE3-058 |
| - E-DCH MAC-d flow identity | 2 | | RBSE3-059 |
| - E-DCH MAC-d flow power offset | 0 | | RBSE3-060 |
| - E-DCH MAC-d flow maximum number of retransmissions | 7 | | RBSE3-061 |
| - E-DCH MAC-d flow multiplexing list | Not Present | | RBSE3-062 |
| - CHOICE transmission grant type | Scheduled grant info | | RBSE3-063 |
| CHOICE mode | Not Present | R99 and Rel-4 only | RBSE3-064 |
| DL Transport channel information common for all transport channel | Not Present | | RBSE3-065 |
| Deleted DL TrCH information | Not Present | | RBSE3-066 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSE3-067 |
| - Added or Reconfigured DL TrCH information | | | RBSE3-068 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSE3-069 |
| - DL Transport channel identity | Not Present | | RBSE3-070 |
| - CHOICE DL parameters | HS-DSCH | Rel-5 | RBSE3-071 |
| - HARQ Info | | Rel-5 | RBSE3-072 |
| - Number of Processes | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE3-073 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|-----------|
| - CHOICE <i>Memory Partitioning</i> | Explicit | Rel-5 | RBSE3-074 |
| - Memory size | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE3-075 |
| - Process Memory Size | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE3-076 |
| - Added or reconfigured MAC-d flow | | Rel-5 | RBSE3-077 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBSE3-078 |
| - MAC-hs queue Id | 0 | Rel-5 | RBSE3-079 |
| - MAC-d Flow Identity | 0 | Rel-5 | RBSE3-080 |
| - T1 | 50 | Rel-5 | RBSE3-081 |
| - MAC-hs window size | 16 | Rel-5 | RBSE3-082 |
| - MAC-d PDU size Info | | Rel-5 | RBSE3-083 |
| - MAC-d PDU size | Reference to TS34.122 [2] Annex C Fixed Reference Channels | Rel-5 | RBSE3-084 |
| - MAC-d PDU size index | 0 | Rel-5 | RBSE3-085 |
| - MAC-hs queue to delete list | Not present | Rel-5 | RBSE3-086 |
| - DCH quality target | Not present | | RBSE3-087 |
| Frequency info | Not Present | | RBSE3-088 |
| Maximum allowed UL TX power | 30dBm | | RBSE3-089 |
| CHOICE channel requirement | Uplink DPCH info | | RBSE3-090 |
| Uplink DPCH info | | Rel-6 | RBSE3-091 |
| - Uplink DPCH power control info | | | RBSE3-092 |
| - CHOICE mode | TDD | | RBSE3-093 |
| - UL target SIR | Not present | | RBSE3-094 |
| - CHOICE UL OL PC info | Broadcast UL OL PC info | | RBSE3-095 |
| - CHOICE mode | TDD | | RBSE3-096 |
| - Uplink Timing Advance Control | | | RBSE3-097 |
| - CHOICE Timing Advance | Enabled | | RBSE3-098 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSE3-099 |
| - UL Timing Advance | Determined by observed timing deviation of the RACH at the node B | | RBSE3-100 |
| - UL CCTrCH List | 1 CCTrCh | | RBSE3-101 |
| - TFCS Id | 1 | | RBSE3-102 |
| - UL target SIR | +20dB | | RBSE3-103 |
| - Activation time | Not present | | RBSE3-104 |
| - Duration | Not present | | RBSE3-105 |
| - Common timeslot info | | | RBSE3-106 |
| - 2 nd interleaving mode | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSE3-107 |
| - TFCI coding | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSE3-108 |
| - Puncturing Limit | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSE3-109 |
| - Repetition Period | 1 | | RBSE3-110 |
| - Repetition Length | 1 | | RBSE3-111 |
| - Uplink DPCH timeslots and codes | | | RBSE3-112 |
| - Dynamic SF usage | TRUE | | RBSE3-113 |
| - Timeslot number | The number of an uplink timeslot that has unassigned codes. | | RBSE3-114 |
| - TFCI existence | TRUE | | RBSE3-115 |
| - Midamble shift and burst type | | | RBSE3-116 |
| - CHOICE TDD option | 3.84 Mcps | | RBSE3-117 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.2.1 Parameter Set | | RBSE3-118 |
| - Midamble Allocation Mode | Default | | RBSE3-119 |
| - Midamble configuration | Choose lowest possible Kcell value given burst type | | RBSE3-120 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSE3-121 |
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set. | | RBSE3-122 |
| - Channelisation code | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set. | | RBSE3-123 |
| - CHOICE more timeslots | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which | | RBSE3-124 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|-----------|
| - UL CCTrCH List to Remove | they are being assigned. Not present | | RBSE3-125 |
| E-DCH Info | | Rel-6 | RBSE3-126 |
| - MAC-es/e reset indicator | TRUE | | RBSE3-127 |
| - CHOICE mode | TDD | | RBSE3-128 |
| - CHOICE TDD mode | 3.84 TDD | | RBSE3-129 |
| - E-RUCCH info | | | RBSE3-130 |
| - E-RUCCH constant value | 0dB | | RBSE3-131 |
| - E-RUCCH persistence scaling | 0.9 | | RBSE3-132 |
| - T-RUCCH | 100ms | | RBSE3-133 |
| - E-RUCCH timeslot number | Not Present | | RBSE3-134 |
| - E-RUCCH midamble | Not Present | | RBSE3-135 |
| - T-adv | Not Present | | RBSE3-136 |
| - T-SCHED | Not Present | | RBSE3-137 |
| - CHOICE TDD option | 3.84Mcps TDD | | RBSE3-138 |
| - CHOICE SF | Not present | | RBSE3-139 |
| - E-PUCH info | | | RBSE3-140 |
| - E-TFCS information | | | RBSE3-141 |
| - Reference Beta Information QPSK list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-142 |
| - Reference Code Rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-143 |
| - Reference beta | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-144 |
| - Reference Beta Information 16QAM list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-145 |
| - Reference Code Rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-146 |
| - Reference beta | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-147 |
| - CHOICE TDD mode | 3.84Mcps TDD | | RBSE3-148 |
| - NE-UCCH | Not Present | | RBSE3-149 |
| - E-PUCH constant value | 0dB | | RBSE3-150 |
| - E-PUCH TS configuration list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-151 |
| - TS number | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-152 |
| - CHOICE <i>Burst Type</i> | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-153 |
| - Midamble configuration | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-154 |
| - E-PUCH code hopping | TRUE | | RBSE3-155 |
| - E-PUCH TPC step size | 1dB | | RBSE3-156 |
| - Minimum allowed code rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-157 |
| - Maximum allowed code rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE3-158 |
| Downlink HS-PDSCH Information | | Rel-5 | RBSE3-159 |
| - HS-SCCH Info | | Rel-5 | RBSE3-160 |
| - CHOICE mode | TDD | Rel-5 | RBSE3-161 |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-5 | RBSE3-162 |
| - Ack-Nack Power Offset | 0dB | Rel-5 | RBSE3-163 |
| - HS-SICH Power Control Info | | Rel-5 | RBSE3-164 |
| - UL SIR target | 0dB | Rel-5 | RBSE3-165 |
| - HS-SICH Constant Value | -10dB | Rel-5 | RBSE3-166 |
| - $D_{hs-sync}$ | Not present | Rel-6 | RBSE3-167 |
| - HS-SCCH Set Configuration | 4 | Rel-5 | RBSE3-168 |
| - Timeslot number | The timeslot in which HS-SCCH is to be configured | Rel-5 | RBSE3-169 |
| - Channelisation code | CC16/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSE3-170 |
| - Midamble Allocation mode | Default | Rel-5 | RBSE3-171 |
| - Midamble configuration | 8 | Rel-5 | RBSE3-172 |
| - BLER target | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | Rel-5 | RBSE3-173 |
| - HS-SICH configuration | | | RBSE3-174 |
| - Timeslot number | The timeslot in which HS-SICH has been | Rel-5 | RBSE3-175 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|-----------|
| - Channelisation code | configured CC16/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSE3-176 |
| - Midamble Allocation mode | Default | Rel-5 | RBSE3-177 |
| - Midamble configuration | 8 | Rel-5 | RBSE3-178 |
| - Measurement Feedback Info | | Rel-5 | RBSE3-179 |
| - CHOICE mode | TDD | Rel-5 | RBSE3-180 |
| - CHOICE TDD option | 3.84 Mcps TDD | Rel-5 | RBSE3-181 |
| - HS-PDSCH Timeslot Configuration | | Rel-5 | RBSE3-182 |
| - HS-PDSCH Timeslot Configuration List | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSE3-183 |
| - Timeslot Number | The timeslot(s) in which HS-HS-DSCH is to configured | Rel-5 | RBSE3-184 |
| - CHOICE Burst Type | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSE3-185 |
| - Midamble Allocation Mode | Default | Rel-5 | RBSE3-186 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-5 | RBSE3-187 |
| Downlink information common for all radio links | Not Present | | RBSE3-188 |
| Downlink information per radio link list | 1 | | RBSE3-189 |
| - Downlink information for each radio link | | | RBSE3-190 |
| - Choice mode | TDD | | RBSE3-191 |
| - Primary CCPCH info | | | RBSE3-192 |
| - Choice mode | TDD | | RBSE3-193 |
| - CHOICE TDD option | 3.84 Mcps TDD | | RBSE3-194 |
| - CHOICE SyncCase | Sync Case 1 | | RBSE3-195 |
| - Timeslot | Set to Timeslot containing PCCPCH | | RBSE3-196 |
| - Cell parameters ID | 10 | | RBSE3-197 |
| - SCTD indicator | FALSE | | RBSE3-198 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | | RBSE3-199 |

Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) (7.68Mcps TDD)

| Information Element | Value/remark | Version | Index |
|------------------------------------|--|---------|-----------|
| Message Type | | | RBSE7-001 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RBSE7-002 |
| Integrity check info | | | RBSE7-003 |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | | RBSE7-004 |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. | | RBSE7-005 |
| Integrity protection mode info | Not Present | | RBSE7-006 |
| Ciphering mode info | Not Present | | RBSE7-007 |
| Activation time | Not Present | | RBSE7-008 |
| New U-RNTI | Not Present | | RBSE7-009 |
| New C-RNTI | Not Present | | RBSE7-010 |
| New H-RNTI | '1010 1010 1010 1010' | Rel-5 | RBSE7-011 |
| New Primary E-RNTI | '1010 1010 1010 1010' | Rel-6 | RBSE7-012 |
| New Secondary E-RNTI | Not Present | Rel-6 | RBSE7-013 |
| RRC State indicator | CELL_DCH | | RBSE7-014 |
| UTRAN DRX cycle length coefficient | Not Present | | RBSE7-015 |
| CN information info | Not Present | | RBSE7-016 |
| URA identity | Not Present | | RBSE7-017 |
| CHOICE specification mode | Complete specification | Rel-6 | RBSE7-018 |
| Signalling RB information to setup | Not Present | | RBSE7-019 |
| RAB information for setup list | | | RBSE7-020 |
| - RAB information for setup | | | RBSE7-021 |
| - RAB info | (high-speed UM DTCH for PS domain) 0000 0110B | | RBSE7-022 |
| - RAB identity | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | | RBSE7-023 |
| - CN domain identity | PS domain | | RBSE7-024 |
| - NAS Synchronization Indicator | Not Present | | RBSE7-025 |
| - Re-establishment timer | UseT315 | | RBSE7-026 |
| - RB information to setup | | | RBSE7-027 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------------|-----------|
| - RB identity | 25 | | RBSE7-028 |
| - PDCP info | Not Present | | RBSE7-029 |
| - CHOICE RLC info type | RLC info | | RBSE7-030 |
| - CHOICE Uplink RLC mode | Not Present | | RBSE7-031 |
| - CHOICE Downlink RLC mode | UM RLC | | RBSE7-032 |
| - DL UM RLC LI size | 7 | Rel-5 | RBSE7-033 |
| - One sided RLC re-establishment | FALSE | Rel-5 | RBSE7-034 |
| - RB mapping info | | | RBSE7-035 |
| - Information for each multiplexing option | 1 RBMuxOptions | | RBSE7-036 |
| - RLC logical channel mapping indicator | Not Present | | RBSE7-037 |
| - Downlink RLC logical channel info | | | RBSE7-038 |
| - Number of downlink RLC logical channels | 1 | | RBSE7-039 |
| - Downlink transport channel type | HS-DSCH | | RBSE7-040 |
| - DL DCH Transport channel identity | Not Present | | RBSE7-041 |
| - DL DSCH Transport channel identity | Not Present | | RBSE7-042 |
| - DL HS-DSCH MAC-d flow identity | 0 | | RBSE7-043 |
| - Logical channel identity | Not Present | | RBSE7-044 |
| RB information to reconfigure list | Not Present | Rel-6 | RBSE7-045 |
| RB information to be affected list | Not Present | | RBSE7-046 |
| Downlink counter synchronization info | Not Present | | RBSE7-047 |
| PDCP ROHC target mode | Not Present | Rel-5 | RBSE7-048 |
| UL Transport channel information for all transport channels | Not Present | | RBSE7-049 |
| Deleted UL TrCH information list | Not Present | | RBSE7-050 |
| Added or Reconfigured TrCH information list | | | RBSE7-051 |
| - Uplink transport channel type | E-DCH | | RBSE7-052 |
| - CHOICE UL parameters | E-DCH | | RBSE7-053 |
| - CHOICE mode | TDD | | RBSE7-054 |
| - HARQ info for E-DCH | | | RBSE7-055 |
| - CHOICE UL parameters | E-DCH | | RBSE7-056 |
| - HARQ RV Configuration | rvtable | | RBSE7-057 |
| - Added or reconfigured E-DCH MAC-d flow | | | RBSE7-058 |
| - E-DCH MAC-d flow identity | 2 | | RBSE7-059 |
| - E-DCH MAC-d flow power offset | 0 | | RBSE7-060 |
| - E-DCH MAC-d flow maximum number of retransmissions | 7 | | RBSE7-061 |
| - E-DCH MAC-d flow multiplexing list | Not Present | | RBSE7-062 |
| - CHOICE transmission grant type | Scheduled grant info | | RBSE7-063 |
| CHOICE mode | Not Present | R99 and Rel-4 only | RBSE7-064 |
| DL Transport channel information common for all transport channel | Not Present | | RBSE7-065 |
| Deleted DL TrCH information | Not Present | | RBSE7-066 |
| Added or Reconfigured DL TrCH information list | 1 TrCHs added | | RBSE7-067 |
| - Added or Reconfigured DL TrCH information | | | RBSE7-068 |
| - Downlink transport channel type | HS-DSCH | Rel-5 | RBSE7-069 |
| - DL Transport channel identity | Not Present | | RBSE7-070 |
| - CHOICE DL parameters | HS-DSCH | Rel-5 | RBSE7-071 |
| - HARQ Info | | Rel-5 | RBSE7-072 |
| - Number of Processes | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE7-073 |
| - CHOICE <i>Memory Partitioning</i> | Explicit | Rel-5 | RBSE7-074 |
| - Memory size | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE7-075 |
| - Process Memory Size | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE7-076 |
| - Added or reconfigured MAC-d flow | | Rel-5 | RBSE7-077 |
| - MAC-hs queue to add or reconfigure list | (one queue) | Rel-5 | RBSE7-078 |
| - MAC-hs queue Id | 0 | Rel-5 | RBSE7-079 |
| - MAC-d Flow Identity | 0 | Rel-5 | RBSE7-080 |
| - T1 | 50 | Rel-5 | RBSE7-081 |
| - MAC-hs window size | 16 | Rel-5 | RBSE7-082 |
| - MAC-d PDU size Info | | Rel-5 | RBSE7-083 |
| - MAC-d PDU size | Reference to TS34.122 Annex C Fixed Reference Channels | Rel-5 | RBSE7-084 |
| - MAC-d PDU size index | 0 | Rel-5 | RBSE7-085 |

| Information Element | Value/remark | Version | Index |
|-------------------------------------|--|---------|-----------|
| - MAC-hs queue to delete list | Not present | Rel-5 | RBSE7-086 |
| - DCH quality target | Not present | | RBSE7-087 |
| Frequency info | Not Present | | RBSE7-088 |
| Maximum allowed UL TX power | 30dBm | | RBSE7-089 |
| CHOICE channel requirement | Uplink DPCH info | | RBSE7-090 |
| Uplink DPCH info | | Rel-6 | RBSE7-091 |
| - Uplink DPCH power control info | | | RBSE7-092 |
| - CHOICE mode | TDD | | RBSE7-093 |
| - UL target SIR | Not present | | RBSE7-094 |
| - CHOICE UL OL PC info | Broadcast UL OL PC info | | RBSE7-095 |
| - CHOICE mode | TDD | | RBSE7-096 |
| - Uplink Timing Advance Control | | | RBSE7-097 |
| - CHOICE Timing Advance | Enabled | | RBSE7-098 |
| - CHOICE TDD option | 7.68 Mcps TDD | | RBSE7-099 |
| - UL Timing Advance | Determined by observed timing deviation of the RACH at the node B | | RBSE7-100 |
| - UL CCTrCH List | 1 CCTrCh | | RBSE7-101 |
| - TFCS Id | 1 | | RBSE7-102 |
| - UL target SIR | +20dB | | RBSE7-103 |
| - Activation time | Not present | | RBSE7-104 |
| - Duration | Not present | | RBSE7-105 |
| - Common timeslot info | | | RBSE7-106 |
| - 2 nd interleaving mode | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-107 |
| - TFCl coding | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-108 |
| - Puncturing Limit | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-109 |
| - Repetition Period | 1 | | RBSE7-110 |
| - Repetition Length | 1 | | RBSE7-111 |
| - Uplink DPCH timeslots and codes | | | RBSE7-112 |
| - Dynamic SF usage | TRUE | | RBSE7-113 |
| - Timeslot number | The number of an uplink timeslot that has unassigned codes. | | RBSE7-114 |
| - TFCl existence | TRUE | | RBSE7-115 |
| - Midamble shift and burst type | | | RBSE7-116 |
| - CHOICE TDD option | 7.68 Mcps | | RBSE7-117 |
| - CHOICE Burst Type | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-118 |
| - Midamble Allocation Mode | Default | | RBSE7-119 |
| - Midamble configuration | Choose lowest possible Kcell value given burst type | | RBSE7-120 |
| - CHOICE TDD option | 7.68 Mcps TDD | | RBSE7-121 |
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C Parameter Set. | | RBSE7-122 |
| - Channelisation code | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C Parameter Set. | | RBSE7-123 |
| - CHOICE more timeslots | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C Parameter Set and the number of slots in which they are being assigned. | | RBSE7-124 |
| - UL CCTrCH List to Remove | Not present | | RBSE7-125 |
| E-DCH Info | | Rel-6 | RBSE7-126 |
| - MAC-es/e reset indicator | TRUE | | RBSE7-127 |
| - CHOICE mode | TDD | | RBSE7-128 |
| - CHOICE TDD mode | 7.68 TDD | | RBSE7-129 |
| - E-RUCCH info | | | RBSE7-130 |
| - E-RUCCH constant value | 0dB | | RBSE7-131 |
| - E-RUCCH persistence scaling | 0.9 | | RBSE7-132 |
| - T-RUCCH | 100ms | | RBSE7-133 |
| - E-RUCCH timeslot number | Not Present | | RBSE7-134 |
| - E-RUCCH midamble | Not Present | | RBSE7-135 |
| - T-adv | Not Present | | RBSE7-136 |
| - T-SCHED | Not Present | | RBSE7-137 |
| - CHOICE TDD option | 7.68Mcps TDD | | RBSE7-138 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|-----------|
| - CHOICE SF | Not present | | RBSE7-139 |
| - E-PUCH info | | | RBSE7-140 |
| - E-TFCS information | | | RBSE7-141 |
| - Reference Beta Information QPSK list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-142 |
| - Reference Code Rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-143 |
| - Reference beta | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-144 |
| - Reference Beta Information 16QAM list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-145 |
| - Reference Code Rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-146 |
| - Reference beta | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-147 |
| - CHOICE TDD mode | 7.68Mcps TDD | | RBSE7-148 |
| - N_{E-UCCH} | Not Present | | RBSE7-149 |
| - E-PUCH constant value | 0dB | | RBSE7-150 |
| - E-PUCH TS configuration list | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-151 |
| - TS number | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-152 |
| - CHOICE <i>Burst Type</i> | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-153 |
| - Midamble configuration | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-154 |
| - E-PUCH code hopping | TRUE | | RBSE7-155 |
| - E-PUCH TPC step size | 1dB | | RBSE7-156 |
| - Minimum allowed code rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-157 |
| - Maximum allowed code rate | Reference to TS34.122 Annex C Fixed Reference Channels | | RBSE7-158 |
| Downlink HS-PDSCH Information | | Rel-5 | RBSE7-159 |
| - HS-SCCH Info | | Rel-5 | RBSE7-160 |
| - CHOICE mode | TDD | Rel-5 | RBSE7-161 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-5 | RBSE7-162 |
| - Ack-Nack Power Offset | 0dB | Rel-5 | RBSE7-163 |
| - HS-SICH Power Control Info | | Rel-5 | RBSE7-164 |
| - UL SIR target | 0dB | Rel-5 | RBSE7-165 |
| - HS-SICH Constant Value | -10dB | Rel-5 | RBSE7-166 |
| - $D_{hs-sync}$ | Not present | Rel-6 | RBSE7-167 |
| - HS-SCCH Set Configuration | 4 | Rel-5 | RBSE7-168 |
| - Timeslot number | The timeslot in which HS-SCCH is to be configured | Rel-5 | RBSE7-169 |
| - Channelisation code | CC32/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSE7-170 |
| - Midamble Allocation mode | Default | Rel-5 | RBSE7-171 |
| - Midamble configuration | 8 | Rel-5 | RBSE7-172 |
| - BLER target | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) | Rel-5 | RBSE7-173 |
| - HS-SICH configuration | | | RBSE7-174 |
| - Timeslot number | The timeslot in which HS-SICH has been configured | Rel-5 | RBSE7-175 |
| - Channelisation code | CC32/x where x is a previously unassigned channelisation code in this TS | Rel-5 | RBSE7-176 |
| - Midamble Allocation mode | Default | Rel-5 | RBSE7-177 |
| - Midamble configuration | 8 | Rel-5 | RBSE7-178 |
| - Measurement Feedback Info | | Rel-5 | RBSE7-179 |
| - CHOICE mode | TDD | Rel-5 | RBSE7-180 |
| - CHOICE TDD option | 7.68 Mcps TDD | Rel-5 | RBSE7-181 |
| - HS-PDSCH Timeslot Configuration | | Rel-5 | RBSE7-182 |
| - HS-PDSCH Timeslot Configuration List | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSE7-183 |
| - Timeslot Number | The timeslot(s) in which HS-HS-DSCH is to be configured | Rel-5 | RBSE7-184 |
| - CHOICE <i>Burst Type</i> | Reference to TS 34.122 clause C.4.1 Parameter Set | Rel-5 | RBSE7-185 |

| Information Element | Value/remark | Version | Index |
|---|-----------------------------------|---------|-----------|
| - Midamble Allocation Mode | Default | Rel-5 | RBSE7-186 |
| - Midamble configuration burst type 1 and 3 | 8 | Rel-5 | RBSE7-187 |
| Downlink information common for all radio links | Not Present | | RBSE7-188 |
| Downlink information per radio link list | 1 | | RBSE7-189 |
| - Downlink information for each radio link | | | RBSE7-190 |
| - Choice mode | TDD | | RBSE7-191 |
| - Primary CCPCH info | | | RBSE7-192 |
| - Choice mode | TDD | | RBSE7-193 |
| - CHOICE TDD option | 7.68 Mcps TDD | | RBSE7-194 |
| - CHOICE SyncCase | Sync Case 1 | | RBSE7-195 |
| - Timeslot | Set to Timeslot containing PCCPCH | | RBSE7-196 |
| - Cell parameters ID | 10 | | RBSE7-197 |
| - SCTD indicator | FALSE | | RBSE7-198 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | | RBSE7-199 |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark | Version |
|-------------------------------|--|------------|
| Message Type | | |
| U-RNTI | This IE is set to the following value when the message is transmitted on the DCCCH. When transmitted on CDCCH, this is absent. | R99, Rel-4 |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| CHOICE identity type | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | Rel-5 |
| - U-RNTI | | |
| - SRNC identity | 0000 0000 0001B | |
| - S-RNTI | 0000 0000 0000 0000 0001B | |
| - Group identity | [FFS] | |
| - Group release information | [FFS] | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | |
| Integrity check info | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. | |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. | |
| N308 | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). | |
| Release cause | Normal event | |
| Rplmn information | Not Present | |

Contents of RRC CONNECTION SETUP message: UM (3.84 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| Message Type | | | RCS3-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS3-002 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RCS3-003 |
| Activation time | Not Present(Now) | | RCS3-004 |
| New U-RNTI | | | RCS3-005 |
| - SRNC identity | 0000 0000 0001B | | RCS3-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS3-007 |
| New C-RNTI | Not Present | | RCS3-008 |
| RRC State Indicator | CELL_DCH | | RCS3-009 |
| UTRAN DRX cycle length coefficient | 9 | | RCS3-010 |
| Capability update requirement | | | RCS3-011 |
| - UE radio access FDD capability update requirement | FALSE | | RCS3-012 |
| - UE radio access TDD capability update | TRUE | | RCS3-013 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| requirement | | | |
| - System specific capability update requirement list | GSM | | RCS3-014 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS3-015 |
| - Complete specification | | Rel-5 | RCS3-016 |
| - Signalling RB information to setup list | 4 SRBs | | RCS3-017 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS3-018 |
| - RB identity | Not Present | | RCS3-019 |
| - CHOICE RLC info type | RLC info | | RCS3-020 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS3-021 |
| - Transmission RLC discard | Not Present | | RCS3-022 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS3-023 |
| - RB mapping info | | | RCS3-024 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS3-025 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-026 |
| - Number of RLC logical channels | 1 | | RCS3-027 |
| - Uplink transport channel type | DCH | | RCS3-028 |
| - UL Transport channel identity | 5 | | RCS3-029 |
| - Logical channel identity | 1 | | RCS3-030 |
| - CHOICE RLC size list | Configured | | RCS3-031 |
| - MAC logical channel priority | 1 | | RCS3-032 |
| - Downlink RLC logical channel info | | | RCS3-033 |
| - Number of RLC logical channels | 1 | | RCS3-034 |
| - Downlink transport channel type | DCH | | RCS3-035 |
| - DL DCH Transport channel identity | 10 | | RCS3-036 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-037 |
| - Logical channel identity | 1 | | RCS3-038 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-039 |
| - Number of RLC logical channels | 1 | | RCS3-040 |
| - Uplink transport channel type | RACH | | RCS3-041 |
| - UL Transport channel identity | Not Present | | RCS3-042 |
| - Logical channel identity | 1 | | RCS3-043 |
| - CHOICE RLC size list | Configured | | RCS3-044 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-045 |
| - MAC logical channel priority | 1 | | RCS3-046 |
| - Downlink RLC logical channel info | | | RCS3-047 |
| - Number of RLC logical channels | 1 | | RCS3-048 |
| - Downlink transport channel type | FACH | | RCS3-049 |
| - DL DCH Transport channel identity | Not Present | | RCS3-050 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-051 |
| - Logical channel identity | 1 | | RCS3-052 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS3-053 |
| - RB identity | Not Present | | RCS3-054 |
| - CHOICE RLC info type | | | RCS3-055 |
| - RLC info | | | RCS3-056 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-057 |
| - Transmission RLC discard | | | RCS3-058 |
| - SDU discard mode | No Discard | | RCS3-059 |
| - MAX_DAT | 415 | | RCS3-060 |
| - Transmission window size | 128 | | RCS3-061 |
| - Timer_RST | 500 | | RCS3-062 |
| - Max_RST | 4 | | RCS3-063 |
| - Polling info | | | RCS3-064 |
| - Timer_poll_prohibit | 200 | | RCS3-065 |
| - Timer_poll | 200 | | RCS3-066 |
| - Poll_PDU | Not Present | | RCS3-067 |
| - Poll_SDU | 1 | | RCS3-068 |
| - Last transmission PDU poll | TRUE | | RCS3-069 |
| - Last retransmission PDU poll | TRUE | | RCS3-070 |
| - Poll_Windows | 99 | | RCS3-071 |
| - Timer_poll_periodic | Not Present | | RCS3-072 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-073 |
| - In-sequence delivery | TRUE | | RCS3-074 |
| - Receiving window size | 128 | | RCS3-075 |
| - Downlink RLC status info | | | RCS3-076 |
| - Timer_status_prohibit | 200 | | RCS3-077 |
| - Timer_EPC | Not Present | | RCS3-078 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - Missing PDU indicator | TRUE | | RCS3-079 |
| - Timer_STATUS_periodic | Not Present | | RCS3-080 |
| - RB mapping info | | | RCS3-081 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS3-082 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-083 |
| - Number of RLC logical channels | 1 | | RCS3-084 |
| - Uplink transport channel type | DCH | | RCS3-085 |
| - UL Transport channel identity | 5 | | RCS3-086 |
| - Logical channel identity | 2 | | RCS3-087 |
| - CHOICE RLC size list | Configured | | RCS3-088 |
| - MAC logical channel priority | 2 | | RCS3-089 |
| - Downlink RLC logical channel info | | | RCS3-090 |
| - Number of RLC logical channels | 1 | | RCS3-091 |
| - Downlink transport channel type | DCH | | RCS3-092 |
| - DL DCH Transport channel identity | 10 | | RCS3-093 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-094 |
| - Logical channel identity | 2 | | RCS3-095 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-096 |
| - Number of RLC logical channels | 1 | | RCS3-097 |
| - Uplink transport channel type | RACH | | RCS3-098 |
| - UL Transport channel identity | Not Present | | RCS3-099 |
| - Logical channel identity | 2 | | RCS3-100 |
| - CHOICE RLC size list | Explicit List | | RCS3-101 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-102 |
| - MAC logical channel priority | 2 | | RCS3-103 |
| - Downlink RLC logical channel info | | | RCS3-104 |
| - Number of RLC logical channels | 1 | | RCS3-105 |
| - Downlink transport channel type | FACH | | RCS3-106 |
| - DL DCH Transport channel identity | Not Present | | RCS3-107 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-108 |
| - Logical channel identity | 2 | | RCS3-109 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS3-110 |
| - RB identity | Not Present | | RCS3-111 |
| - CHOICE RLC info type | | | RCS3-112 |
| - RLC info | | | RCS3-113 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-114 |
| - Transmission RLC discard | | | RCS3-115 |
| - SDU discard mode | No Discard | | RCS3-116 |
| - MAX_DAT | 415 | | RCS3-117 |
| - Transmission window size | 128 | | RCS3-118 |
| - Timer_RST | 500 | | RCS3-119 |
| - Max_RST | 4 | | RCS3-120 |
| - Polling info | | | RCS3-121 |
| - Timer_poll_prohibit | 200 | | RCS3-122 |
| - Timer_poll | 200 | | RCS3-123 |
| - Poll_PDU | Not Present | | RCS3-124 |
| - Poll_SDU | 1 | | RCS3-125 |
| - Last transmission PDU poll | TRUE | | RCS3-126 |
| - Last retransmission PDU poll | TRUE | | RCS3-127 |
| - Poll_Windows | 99 | | RCS3-128 |
| - Timer_poll_periodic | Not Present | | RCS3-129 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-130 |
| - In-sequence delivery | TRUE | | RCS3-131 |
| - Receiving window size | 128 | | RCS3-132 |
| - Downlink RLC status info | | | RCS3-133 |
| - Timer_status_prohibit | 200 | | RCS3-134 |
| - Timer_EPC | Not Present | | RCS3-135 |
| - Missing PDU indicator | TRUE | | RCS3-136 |
| - Timer_STATUS_periodic | Not Present | | RCS3-137 |
| - RB mapping info | | | RCS3-138 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS3-139 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-140 |
| - Number of RLC logical channels | 1 | | RCS3-141 |
| - Uplink transport channel type | DCH | | RCS3-142 |
| - UL Transport channel identity | 5 | | RCS3-143 |
| - Logical channel identity | 3 | | RCS3-144 |
| - CHOICE RLC size list | Configured | | RCS3-145 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - MAC logical channel priority | 3 | | RCS3-146 |
| - Downlink RLC logical channel info | | | RCS3-147 |
| - Number of RLC logical channels | 1 | | RCS3-148 |
| - Downlink transport channel type | DCH | | RCS3-149 |
| - DL DCH Transport channel identity | 10 | | RCS3-150 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-151 |
| - Logical channel identity | 3 | | RCS3-152 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-153 |
| - Number of RLC logical channels | 1 | | RCS3-154 |
| - Uplink transport channel type | RACH | | RCS3-155 |
| - UL Transport channel identity | Not Present | | RCS3-156 |
| - Logical channel identity | 3 | | RCS3-157 |
| - CHOICE RLC size list | Explicit List | | RCS3-158 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-159 |
| - MAC logical channel priority | 3 | | RCS3-160 |
| - Downlink RLC logical channel info | | | RCS3-161 |
| - Number of RLC logical channels | 1 | | RCS3-162 |
| - Downlink transport channel type | FACH | | RCS3-163 |
| - DL DCH Transport channel identity | Not Present | | RCS3-164 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-165 |
| - Logical channel identity | 3 | | RCS3-166 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS3-167 |
| - RB identity | Not Present | | RCS3-168 |
| - CHOICE RLC info type | | | RCS3-169 |
| - RLC info | | | RCS3-170 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS3-171 |
| - Transmission RLC discard | | | RCS3-172 |
| - SDU discard mode | No Discard | | RCS3-173 |
| - MAX_DAT | 15 | | RCS3-174 |
| - Transmission window size | 128 | | RCS3-175 |
| - Timer_RST | 500 | | RCS3-176 |
| - Max_RST | 4 | | RCS3-177 |
| - Polling info | | | RCS3-178 |
| - Timer_poll_prohibit | 200 | | RCS3-179 |
| - Timer_poll | 200 | | RCS3-180 |
| - Poll_PDU | Not Present | | RCS3-181 |
| - Poll_SDU | 1 | | RCS3-182 |
| - Last transmission PDU poll | TRUE | | RCS3-183 |
| - Last retransmission PDU poll | TRUE | | RCS3-184 |
| - Poll_Windows | 99 | | RCS3-185 |
| - Timer_poll_periodic | Not Present | | RCS3-186 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS3-187 |
| - In-sequence delivery | TRUE | | RCS3-188 |
| - Receiving window size | 128 | | RCS3-189 |
| - Downlink RLC status info | | | RCS3-190 |
| - Timer_status_prohibit | 200 | | RCS3-191 |
| - Timer_EPC | Not Present | | RCS3-192 |
| - Missing PDU indicator | TRUE | | RCS3-193 |
| - Timer_STATUS_periodic | Not Present | | RCS3-194 |
| - RB mapping info | | | RCS3-195 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS3-196 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-197 |
| - Number of RLC logical channels | 1 | | RCS3-198 |
| - Uplink transport channel type | DCH | | RCS3-199 |
| - UL Transport channel identity | 5 | | RCS3-200 |
| - Logical channel identity | 4 | | RCS3-201 |
| - CHOICE RLC size list | Configured | | RCS3-202 |
| - MAC logical channel priority | 4 | | RCS3-203 |
| - Downlink RLC logical channel info | | | RCS3-204 |
| - Number of RLC logical channels | 1 | | RCS3-205 |
| - Downlink transport channel type | DCH | | RCS3-206 |
| - DL DCH Transport channel identity | 10 | | RCS3-207 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-208 |
| - Logical channel identity | 4 | | RCS3-209 |
| - RLC logical channel mapping indicator | Not Present | | RCS3-210 |
| - Number of RLC logical channels | 1 | | RCS3-211 |
| - Uplink transport channel type | RACH | | RCS3-212 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - UL Transport channel identity | Not Present | | RCS3-213 |
| - Logical channel identity | 4 | | RCS3-214 |
| - CHOICE RLC size list | Explicit List | | RCS3-215 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS3-216 |
| - MAC logical channel priority | 4 | | RCS3-217 |
| - Downlink RLC logical channel info | | | RCS3-218 |
| - Number of RLC logical channels | 1 | | RCS3-219 |
| - Downlink transport channel type | FACH | | RCS3-220 |
| - DL DCH Transport channel identity | Not Present | | RCS3-221 |
| - DL DSCH Transport channel identity | Not Present | | RCS3-222 |
| - Logical channel identity | 4 | | RCS3-223 |
| UL Transport channel information for all transport channels | | | RCS3-224 |
| - PRACH TFCS | Not Present | | RCS3-225 |
| - CHOICE Mode | TDD | | RCS3-226 |
| - Individual UL CCTrCH information | | | RCS3-227 |
| - UL TFCS ID | (This IE is repeated for TFC number.) | | RCS3-228 |
| - UL TFCS | | | RCS3-229 |
| - TFC subset | Default value is the complete existing set of transport format combinations | | RCS3-230 |
| - Allowed Transport Format combination | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) | | RCS3-231 |
| - PRACH TFCS | (This IE is repeated for TFC number.) | | RCS3-232 |
| - CHOICE TFCI signalling | Normal | | RCS3-233 |
| - TFCI Field 1 information | | | RCS3-234 |
| - TFCS complete reconfigure | | | RCS3-235 |
| - CHOICE TFCS Size | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set | | RCS3-236 |
| - CTFC information | Not Present | | RCS3-237 |
| - CHOICE mode | TDD | | RCS3-238 |
| - Individual UL CCTrCH information | Not Present | | RCS3-239 |
| Deleted TrCH information list | Not Present | | RCS3-240 |
| Added or Reconfigured UL TrCH information list | 1 | | RCS3-241 |
| - Added or Reconfigured UL TrCH information | | | RCS3-242 |
| - Uplink transport channel type | DCH | | RCS3-243 |
| - UL Transport channel identity | 5 | | RCS3-244 |
| - TFS | | | RCS3-245 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS3-246 |
| - Dynamic Transport Format Information | | | RCS3-247 |
| - RLC size | According to clause 6 | | RCS3-248 |
| - Number of TBs and TTI List | (This IE is repeated for TFI number) | | RCS3-249 |
| - CHOICE mode | TDD | | RCS3-250 |
| - Transmission Time Interval | According to clause 6 | | RCS3-251 |
| - CHOICE Logical channel list | All | | RCS3-252 |
| - Semi-static Transport Format information | | | RCS3-253 |
| DL Transport channel information common for all transport channel | | | RCS3-254 |
| - SCCPCH TFCS | Not Present | | RCS3-255 |
| - CHOICE mode | TDD | | RCS3-256 |
| - CHOICE DL parameters | Same as UL | | RCS3-257 |
| Added or Reconfigured DL TrCH information list | 1 | | RCS3-258 |
| - Added or Reconfigured DL TrCH information | | | RCS3-259 |
| - Downlink transport channel type | DCH | | RCS3-260 |
| - DL Transport channel identity | 10 | | RCS3-261 |
| - CHOICE DL parameters | Same as UL | | RCS3-262 |
| - Uplink transport channel type | DCH | | RCS3-263 |
| - UL TrCH Identity | 5 | | RCS3-264 |
| - DCH quality target | | | RCS3-265 |
| - BLER Quality value | Reference to the present document | | RCS3-266 |
| Frequency info | Not Present | | RCS3-267 |
| Maximum allowed UL TX power | Not Present | | RCS3-268 |
| CHOICE channel requirement | Uplink DPCH info | | RCS3-269 |
| - Uplink DPCH power control info | | | RCS3-270 |
| - CHOICE mode | TDD | | RCS3-271 |
| - CHOICE TDD option | 3.84 Mcps | | RCS3-272 |

| Information Element | Value/remark | Version | Index |
|---|--|--------------------|----------|
| - UL target SIR | Reference to clause 6 Parameter set | | RCS3-273 |
| - CHOICE mode | TDD | | RCS3-274 |
| - CHOICE <i>UL OL PC info</i> | Individually signalled | | RCS3-275 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps | | RCS3-276 |
| - Individual timeslot interference info | Not Present | | RCS3-277 |
| - Individual timeslot interference | | | RCS3-278 |
| - DPCH Constant Value | | | RCS3-279 |
| - Primary CCPCH Tx Power | Not Present | | RCS3-280 |
| - Time info | | | RCS3-281 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RCS3-282 |
| - Duration | Infinite | | RCS3-283 |
| - Common timeslot info | | | RCS3-284 |
| - 2 nd interleaving mode | Reference to clause 6.10 Parameter Set | | RCS3-285 |
| - TFCI coding | Reference to clause 6.10 Parameter Set | | RCS3-286 |
| - Puncturing Limit | Reference to clause 6.10 Parameter Set | | RCS3-287 |
| - Repetition Period | Reference to clause 6.10 Parameter Set | | RCS3-288 |
| - Repetition Length | Reference to clause 6.10 Parameter Set | | RCS3-289 |
| - Uplink DPCH timeslots and codes | Default is to use the old timeslots and codes (no data) | R99 and Rel-4 only | RCS3-290 |
| - CPCH SET Info | | | RCS3-291 |
| Downlink information common for all radio links | | | RCS3-292 |
| - Downlink DPCH info common for all RL | | | RCS3-293 |
| - Timing Indication | Initialize | | RCS3-294 |
| - CFN-targetSFN frame offset | Not Present | | RCS3-295 |
| - Downlink DPCH power control information | | | RCS3-296 |
| - DPC mode | 0 (single) | | RCS3-297 |
| - CHOICE mode | TDD | | RCS3-298 |
| - CHOICE TDD option | 3.84 Mcps (no data) | | RCS3-299 |
| - Default DPCH Offset Value | Arbitrary set to value 0..306688 by step of 512 | | RCS3-300 |
| Downlink information for per radio links list | | | RCS3-301 |
| -Downlink information for each radio links | | | RCS3-302 |
| - CHOICE mode | TDD | | RCS3-303 |
| - Primary CCPCH info | | | RCS3-304 |
| - CHOICE <i>SyncCase</i> | Sync Case 1 | | RCS3-305 |
| - Timeslot | PCCPCH timeslot | | RCS3-306 |
| - Cell parameters ID | 0 | | RCS3-307 |
| - SCTD indicator | | | RCS3-308 |
| - Downlink DPCH info for each RL | | | RCS3-309 |
| - CHOICE mode | TDD | | RCS3-310 |
| - DL CCTrCH List | | | RCS3-311 |
| - TFCS ID | 1 | | RCS3-312 |
| - Time info | | | RCS3-313 |
| - Activation time | (256+CFN-(CFN mod 8 + 8))mod 256 | | RCS3-314 |
| - Duration | infinite | | RCS3-315 |
| - Common timeslot info | | | RCS3-316 |
| - 2 nd interleaving mode | Reference to the present document | | RCS3-317 |
| - TFCI coding | TRUE | | RCS3-318 |
| - Puncturing limit | Reference to clause 6 Parameter set | | RCS3-319 |
| - Repetition period | 1 | | RCS3-320 |
| - Repetition length | Empty | | RCS3-321 |
| - Downlink DPCH timeslots and codes | | | RCS3-322 |
| - CHOICE <i>more timeslots</i> | | | RCS3-323 |
| - CHOICE TDD option | 3.84 Mcps | | RCS3-324 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes in a frame. | | RCS3-325 |
| - Individual timeslot info | | | RCS3-326 |
| - TFCI existence | TRUE | | RCS3-327 |
| - Midamble shift and burst type | | | RCS3-328 |
| - CHOICE TDD option | 3.84 Mcps | | RCS3-329 |
| -CHOICE Burst Type | | | RCS3-330 |
| -Type 1 | | | RCS3-331 |
| -Midamble Allocation Mode | Default | | RCS3-332 |
| - Midamble configuration burst | As defined in 3GPP TS 25.221 [28] | | RCS3-333 |
| type 1 and 3 | | | RCS3-334 |
| - First timeslot channelisation codes | | | RCS3-335 |
| - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in | | RCS3-335 |

| Information Element | Value/remark | Version | Index |
|------------------------------|--|--------------------|----------|
| - Last channelisation code | clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS3-336 |
| - CHOICE more timeslots | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RCS3-337 |
| - UL CCTrCH TPC List | Not Present | | RCS3-338 |
| -SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RCS3-339 |

Contents of RRC CONNECTION SETUP message: UM (1.28 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| Message Type | | | RCS1-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS1-002 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RCS1-003 |
| Activation time | Not Present(Now) | | RCS1-004 |
| New U-RNTI | | | RCS1-005 |
| - SRNC identity | 0000 0000 0001B | | RCS1-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS1-007 |
| New C-RNTI | Not Present | | RCS1-008 |
| RRC State Indicator | CELL_DCH | | RCS1-009 |
| UTRAN DRX cycle length coefficient | 9 | | RCS1-010 |
| Capability update requirement | | | RCS1-011 |
| - UE radio access FDD capability update requirement | FALSE | | RCS1-012 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE | Rel-4 | RCS1-013 |
| - UE radio access 7.68 Mcps TDD capability update requirement | FALSE | Rel-7 | RCS1-014 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE | Rel-4 | RCS1-015 |
| - System specific capability update requirement list | GSM | | RCS1-016 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS1-017 |
| - Complete specification | | Rel-5 | RCS1-018 |
| - Signalling RB information to setup list | 4 SRBs | | RCS1-019 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS1-020 |
| - RB identity | Not Present | | RCS1-021 |
| - CHOICE RLC info type | RLC info | | RCS1-022 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS1-023 |
| - Transmission RLC discard | Not Present | | RCS1-024 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS1-025 |
| - DL UM RLC LI size | 7 bit | Rel-6 | RCS1-026 |
| - One sided RLC re-establishment | FALSE | Rel-6 | RCS1-027 |
| - RB mapping info | | | RCS1-028 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS1-029 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-030 |
| - Number of RLC logical channels | 1 | | RCS1-031 |
| - Uplink transport channel type | DCH | | RCS1-032 |
| - UL Transport channel identity | 5 | | RCS1-033 |
| - Logical channel identity | 1 | | RCS1-034 |
| - CHOICE RLC size list | Configured | | RCS1-035 |
| - MAC logical channel priority | 1 | | RCS1-036 |
| - Downlink RLC logical channel info | | | RCS1-037 |
| - Number of RLC logical channels | 1 | | RCS1-038 |
| - Downlink transport channel type | DCH | | RCS1-039 |
| - DL DCH Transport channel identity | 10 | | RCS1-040 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-041 |
| - Logical channel identity | 1 | | RCS1-042 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-043 |
| - Number of RLC logical channels | 1 | | RCS1-044 |
| - Uplink transport channel type | RACH | | RCS1-045 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - UL Transport channel identity | Not Present | | RCS1-046 |
| - Logical channel identity | 1 | | RCS1-047 |
| - CHOICE RLC size list | Explicit List | | RCS1-048 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS1-049 |
| - MAC logical channel priority | 1 | | RCS1-050 |
| - Downlink RLC logical channel info | | | RCS1-051 |
| - Number of RLC logical channels | 1 | | RCS1-052 |
| - Downlink transport channel type | FACH | | RCS1-053 |
| - DL DCH Transport channel identity | Not Present | | RCS1-054 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-055 |
| - Logical channel identity | 1 | | RCS1-056 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS1-057 |
| - RB identity | Not Present | | RCS1-058 |
| - CHOICE RLC info type | | | RCS1-059 |
| - RLC info | | | RCS1-060 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS1-061 |
| - Transmission RLC discard | | | RCS1-062 |
| - SDU discard mode | No Discard | | RCS1-063 |
| - MAX_DAT | 15 | | RCS1-064 |
| - Transmission window size | 128 | | RCS1-065 |
| - Timer_RST | 500 | | RCS1-066 |
| - Max_RST | 4 | | RCS1-067 |
| - Polling info | | | RCS1-068 |
| - Timer_poll_prohibit | 200 | | RCS1-069 |
| - Timer_poll | 200 | | RCS1-070 |
| - Poll_PDU | Not Present | | RCS1-071 |
| - Poll_SDU | 1 | | RCS1-072 |
| - Last transmission PDU poll | TRUE | | RCS1-073 |
| - Last retransmission PDU poll | TRUE | | RCS1-074 |
| - Poll_Windows | 99 | | RCS1-075 |
| - Timer_poll_periodic | Not Present | | RCS1-076 |
| - CHOICE Downlink RLC mode | AM RLC | Rel-6 | RCS1-077 |
| - DL RLC PDU size | 96 bits | | RCS1-078 |
| - In-sequence delivery | TRUE | | RCS1-079 |
| - Receiving window size | 128 | | RCS1-080 |
| - Downlink RLC status info | | | RCS1-081 |
| - Timer_status_prohibit | 200 | | RCS1-082 |
| - Timer_EPC | Not Present | | RCS1-083 |
| - Missing PDU indicator | TRUE | | RCS1-084 |
| - Timer_STATUS_periodic | Not Present | | RCS1-085 |
| - RB mapping info | | | RCS1-086 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS1-087 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-088 |
| - Number of RLC logical channels | 1 | | RCS1-089 |
| - Uplink transport channel type | DCH | | RCS1-090 |
| - UL Transport channel identity | 5 | | RCS1-091 |
| - Logical channel identity | 2 | | RCS1-092 |
| - CHOICE RLC size list | Configured | | RCS1-093 |
| - MAC logical channel priority | 2 | | RCS1-094 |
| - Downlink RLC logical channel info | | | RCS1-095 |
| - Number of RLC logical channels | 1 | | RCS1-096 |
| - Downlink transport channel type | DCH | | RCS1-097 |
| - DL DCH Transport channel identity | 10 | | RCS1-098 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-099 |
| - Logical channel identity | 2 | | RCS1-100 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-101 |
| - Number of RLC logical channels | 1 | | RCS1-102 |
| - Uplink transport channel type | RACH | | RCS1-103 |
| - UL Transport channel identity | Not Present | | RCS1-104 |
| - Logical channel identity | 2 | | RCS1-105 |
| - CHOICE RLC size list | Explicit List | | RCS1-106 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS1-107 |
| - MAC logical channel priority | 2 | | RCS1-108 |
| - Downlink RLC logical channel info | | | RCS1-109 |
| - Number of RLC logical channels | 1 | | RCS1-110 |
| - Downlink transport channel type | FACH | | RCS1-111 |
| - DL DCH Transport channel identity | Not Present | | RCS1-112 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - DL DSCH Transport channel identity | Not Present | | RCS1-113 |
| - Logical channel identity | 2 | | RCS1-114 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS1-115 |
| - RB identity | Not Present | | RCS1-116 |
| - CHOICE RLC info type | | | RCS1-117 |
| - RLC info | | | RCS1-118 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS1-119 |
| - Transmission RLC discard | | | RCS1-120 |
| - SDU discard mode | No Discard | | RCS1-121 |
| - MAX_DAT | 15 | | RCS1-122 |
| - Transmission window size | 128 | | RCS1-123 |
| - Timer_RST | 500 | | RCS1-124 |
| - Max_RST | 4 | | RCS1-125 |
| - Polling info | | | RCS1-126 |
| - Timer_poll_prohibit | 200 | | RCS1-127 |
| - Timer_poll | 200 | | RCS1-128 |
| - Poll_PDU | Not Present | | RCS1-129 |
| - Poll_SDU | 1 | | RCS1-130 |
| - Last transmission PDU poll | TRUE | | RCS1-131 |
| - Last retransmission PDU poll | TRUE | | RCS1-132 |
| - Poll_Windows | 99 | | RCS1-133 |
| - Timer_poll_periodic | Not Present | | RCS1-134 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS1-135 |
| - DL RLC PDU size | 96 bits | Rel-6 | RCS1-136 |
| - In-sequence delivery | TRUE | | RCS1-137 |
| - Receiving window size | 128 | | RCS1-138 |
| - Downlink RLC status info | | | RCS1-139 |
| - Timer_status_prohibit | 200 | | RCS1-140 |
| - Timer_EPC | Not Present | | RCS1-141 |
| - Missing PDU indicator | TRUE | | RCS1-142 |
| - Timer_STATUS_periodic | Not Present | | RCS1-143 |
| - RB mapping info | | | RCS1-144 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS1-145 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-146 |
| - Number of RLC logical channels | 1 | | RCS1-147 |
| - Uplink transport channel type | DCH | | RCS1-148 |
| -UL Transport channel identity | 5 | | RCS1-149 |
| - Logical channel identity | 3 | | RCS1-150 |
| - CHOICE RLC size list | Configured | | RCS1-151 |
| - MAC logical channel priority | 3 | | RCS1-152 |
| - Downlink RLC logical channel info | | | RCS1-153 |
| - Number of RLC logical channels | 1 | | RCS1-154 |
| - Downlink transport channel type | DCH | | RCS1-155 |
| - DL DCH Transport channel identity | 10 | | RCS1-156 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-157 |
| - Logical channel identity | 3 | | RCS1-158 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-159 |
| - Number of RLC logical channels | 1 | | RCS1-160 |
| - Uplink transport channel type | RACH | | RCS1-161 |
| - UL Transport channel identity | Not Present | | RCS1-162 |
| - Logical channel identity | 3 | | RCS1-163 |
| - CHOICE RLC size list | Explicit List | | RCS1-164 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS1-165 |
| - MAC logical channel priority | 3 | | RCS1-166 |
| - Downlink RLC logical channel info | | | RCS1-167 |
| - Number of RLC logical channels | 1 | | RCS1-168 |
| - Downlink transport channel type | FACH | | RCS1-169 |
| - DL DCH Transport channel identity | Not Present | | RCS1-170 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-171 |
| - Logical channel identity | 3 | | RCS1-172 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS1-173 |
| - RB identity | Not Present | | RCS1-174 |
| - CHOICE RLC info type | | | RCS1-175 |
| - RLC info | | | RCS1-176 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS1-177 |
| - Transmission RLC discard | | | RCS1-178 |
| - SDU discard mode | No Discard | | RCS1-179 |

| Information Element | Value/remark | Version | Index |
|---|-------------------------------------|----------|----------|
| - MAX_DAT | 15 | Rel-6 | RCS1-180 |
| - Transmission window size | 128 | | RCS1-181 |
| - Timer_RST | 500 | | RCS1-182 |
| - Max_RST | 4 | | RCS1-183 |
| - Polling info | | | RCS1-184 |
| - Timer_poll_prohibit | 200 | | RCS1-185 |
| - Timer_poll | 200 | | RCS1-186 |
| - Poll_PDU | Not Present | | RCS1-187 |
| - Poll_SDU | 1 | | RCS1-188 |
| - Last transmission PDU poll | TRUE | | RCS1-189 |
| - Last retransmission PDU poll | TRUE | | RCS1-190 |
| - Poll_Windows | 99 | | RCS1-191 |
| - Timer_poll_periodic | Not Present | | RCS1-192 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS1-193 |
| - DL RLC PDU size | 96 bits | | RCS1-194 |
| - In-sequence delivery | TRUE | | RCS1-195 |
| - Receiving window size | 128 | | RCS1-196 |
| - Downlink RLC status info | | | RCS1-197 |
| - Timer_status_prohibit | 200 | | RCS1-198 |
| - Timer_EPC | Not Present | | RCS1-199 |
| - Missing PDU indicator | TRUE | | RCS1-200 |
| - Timer_STATUS_periodic | Not Present | RCS1-201 | |
| - RB mapping info | | | RCS1-202 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS1-203 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-204 |
| - Number of RLC logical channels | 1 | | RCS1-205 |
| - Uplink transport channel type | DCH | | RCS1-206 |
| - UL Transport channel identity | 5 | | RCS1-207 |
| - Logical channel identity | 4 | | RCS1-208 |
| - CHOICE RLC size list | Configured | | RCS1-209 |
| - MAC logical channel priority | 4 | | RCS1-210 |
| - Downlink RLC logical channel info | | | RCS1-211 |
| - Number of RLC logical channels | 1 | | RCS1-212 |
| - Downlink transport channel type | DCH | | RCS1-213 |
| - DL DCH Transport channel identity | 10 | | RCS1-214 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-215 |
| - Logical channel identity | 4 | | RCS1-216 |
| - RLC logical channel mapping indicator | Not Present | | RCS1-217 |
| - Number of RLC logical channels | 1 | | RCS1-218 |
| - Uplink transport channel type | RACH | | RCS1-219 |
| - UL Transport channel identity | Not Present | | RCS1-220 |
| - Logical channel identity | 4 | | RCS1-221 |
| - CHOICE RLC size list | Explicit List | | RCS1-222 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS1-223 |
| - MAC logical channel priority | 4 | | RCS1-224 |
| - Downlink RLC logical channel info | | | RCS1-225 |
| - Number of RLC logical channels | 1 | | RCS1-226 |
| - Downlink transport channel type | FACH | | RCS1-227 |
| - DL DCH Transport channel identity | Not Present | | RCS1-228 |
| - DL DSCH Transport channel identity | Not Present | | RCS1-229 |
| - Logical channel identity | 4 | | RCS1-230 |
| UL Transport channel information for all transport channels | | | RCS1-231 |
| - PRACH TFCS | Not Present | | RCS1-232 |
| - CHOICE Mode | TDD | | RCS1-233 |
| - Individual UL CCTrCH information | | | RCS1-234 |
| - UL TFCS Identity | | | RCS1-235 |
| - TFCS ID | 1 | | RCS1-236 |
| - Shared Channel Indicator | FALSE | | RCS1-237 |
| - UL TFCS | | | RCS1-238 |
| - CHOICE TFCS signalling | Normal | | RCS1-239 |
| - TFCS Field 1 Information | | | RCS1-240 |
| - CHOICE TFCS representation | Complete reconfiguration | | RCS1-241 |
| - TFCS complete reconfiguration | | | RCS1-242 |
| information | | | |
| - CHOICE CTFC Size | 2 bit CTFC | | RCS1-243 |
| - CTFC information | 2 TFCs | | RCS1-244 |

| Information Element | Value/remark | Version | Index |
|---|---------------------------------------|---------|----------|
| - 2 bit CTFC | 0 | | RCS1-245 |
| - Power offset Information | Not Present | | RCS1-246 |
| - 2 bit CTFC | 1 | | RCS1-247 |
| - Power offset Information | Not Present | | RCS1-248 |
| - TFC subset | Full transport format combination set | | RCS1-249 |
| - no data | | | RCS1-250 |
| - TFC subset list | Not Present | Rel-4 | RCS1-251 |
| Deleted TrCH information list | Not Present | | RCS1-252 |
| Added or Reconfigured UL TrCH information list | 1 | | RCS1-253 |
| - Added or Reconfigured UL TrCH information | | | RCS1-254 |
| - Uplink transport channel type | DCH | | RCS1-255 |
| - UL Transport channel identity | 5 | | RCS1-256 |
| - TFS | | | RCS1-257 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS1-258 |
| - Dynamic Transport Format Information | | | RCS1-259 |
| - RLC size | 96 bits | | RCS1-260 |
| - Number of TBs and TTI List | 2 | | RCS1-261 |
| - Transmission Time Interval | Not Present | | RCS1-262 |
| - Number of Transport blocks | 0 | | RCS1-263 |
| - Transmission Time Interval | Not Present | | RCS1-264 |
| - Number of Transport blocks | 1 | | RCS1-265 |
| - CHOICE Logical channel list | All | | RCS1-266 |
| - Semi-static Transport Format information | | | RCS1-267 |
| - Transmission time interval | 40 | | RCS1-268 |
| - Type of channel coding | Convolutional | | RCS1-269 |
| - Coding Rate | 1/3 | | RCS1-270 |
| - Rate matching attribute | 240 | | RCS1-271 |
| - CRC size | 12 | | RCS1-272 |
| DL Transport channel information common for all transport channel | | | RCS1-273 |
| - SCCPCH TFCS | Not Present | | RCS1-274 |
| - CHOICE mode | TDD | | RCS1-275 |
| - CHOICE DL parameters | Same as UL | | RCS1-276 |
| Added or Reconfigured DL TrCH information list | 1 | | RCS1-277 |
| - Added or Reconfigured DL TrCH information | | | RCS1-278 |
| - Downlink transport channel type | DCH | | RCS1-279 |
| - DL Transport channel identity | 10 | | RCS1-280 |
| - CHOICE DL parameters | Same as UL | | RCS1-281 |
| - Uplink transport channel type | DCH | | RCS1-282 |
| - UL TrCH Identity | 5 | | RCS1-283 |
| - DCH quality target | | | RCS1-284 |
| - BLER Quality value | -20 (-2.0) | | RCS1-285 |
| Frequency info | Not Present | | RCS1-286 |
| Maximum allowed UL TX power | Not Present | | RCS1-287 |
| CHOICE channel requirement | Uplink DPCH info | | RCS1-288 |
| - Uplink DPCH power control info | | | RCS1-289 |
| - CHOICE mode | TDD | | RCS1-290 |
| - CHOICE <i>TDD option</i> | 1.28 Mcps | Rel-4 | RCS1-291 |
| - PRXPDPCHdes | Reference to clause 6 Parameter set | Rel-4 | RCS1-292 |
| - CHOICE mode | TDD | | RCS1-293 |
| - CHOICE <i>UL OL PC info</i> | Individually signalled | | RCS1-294 |
| - CHOICE <i>TDD option</i> | 1.28 Mcps | Rel-4 | RCS1-295 |
| - Beacon PL Est. | Not Present | Rel-6 | RCS1-296 |
| - TPC step size | 1 dB | Rel-4 | RCS1-297 |
| - Primary CCPCH Tx Power | 30 dBm | | RCS1-298 |
| | | | RCS1-299 |
| - CHOICE mode | TDD | | RCS1-300 |
| - Uplink Timing Advance Control | | | RCS1-301 |
| - CHOICE Timing Advance | enabled | | RCS1-302 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-303 |
| - Uplink synchronization parameters | | | RCS1-304 |
| - Uplink synchronization step size | 1 | | RCS1-305 |
| - Uplink synchronization frequency | 1 | | RCS1-306 |
| - Synchronization parameters | Not present | | RCS1-307 |
| - UL CCTrCH List | | | RCS1-308 |
| - TFCS ID | 1 | | RCS1-309 |
| - PRXPDPCHdes | Reference to clause 6 Parameter set | Rel-4 | RCS1-310 |

| Information Element | Value/remark | Version | Index |
|---|---|---------|----------|
| - Time info | | | RCS1-311 |
| - Activation time | Not present | | RCS1-312 |
| - Duration | Not present | | RCS1-313 |
| - Common timeslot info | | | RCS1-314 |
| - 2 nd interleaving mode | Frame | | RCS1-315 |
| - TFCI coding | 8 bits | | RCS1-316 |
| - Puncturing Limit | 1.0 | | RCS1-317 |
| - Repetition Period | 1 | | RCS1-318 |
| - Repetition Length | Null | | RCS1-319 |
| - CHOICE TDD option | 1.28 Mcps | Rel-7 | RCS1-320 |
| - Uplink DPCH timeslots and codes LCR | Default is to use the old timeslots and codes | Rel-7 | RCS1-321 |
| - Dynamic SF usage | FALSE | | RCS1-322 |
| - First individual timeslot info | | | RCS1-323 |
| - Timeslot number | | | RCS1-324 |
| - CHOICE TDD option | 1.28 Mcps TDD | Rel-4 | RCS1-325 |
| - Timeslot number | 1 OR 2 OR 3 | | RCS1-326 |
| - TFCI existence | TRUE | | RCS1-327 |
| - Midamble shift and burst type | | | RCS1-328 |
| - CHOICE TDD option | 1.28 Mcps TDD | Rel-4 | RCS1-329 |
| - Midamble allocation mode | Default midamble | | RCS1-330 |
| - Midamble configuration | 4 (k=8) | | RCS1-331 |
| - Midamble Shift | Not Present | | RCS1-332 |
| - CHOICE TDD option | 1.28 Mcps TDD | Rel-4 | RCS1-333 |
| - Modulation | QPSK | | RCS1-334 |
| - SS-TPC Symbols | 1 | | RCS1-335 |
| - Additional TPC-SS Symbols | Not Present | | RCS1-336 |
| - First timeslot Code List | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. | | RCS1-337 |
| - channelisation codes | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. | | RCS1-338 |
| - CHOICE more timeslots | No more timeslots | | RCS1-339 |
| Downlink information common for all radio links | | | RCS1-340 |
| - Downlink DPCH info common for all RL | | | RCS1-341 |
| - Timing Indication | Initialize | | RCS1-342 |
| - CFN-targetSFN frame offset | Not Present | | RCS1-343 |
| - Downlink DPCH power control information | | | RCS1-344 |
| - CHOICE mode | TDD | | RCS1-345 |
| - TPC Step Size | 1 | | RCS1-346 |
| - CHOICE mode | TDD | | RCS1-347 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-348 |
| - TSTD indicator | FALSE | | RCS1-349 |
| - Default DPCH Offset Value | Arbitrary set to value 0..306688 by step of 512 | | RCS1-350 |
| Downlink information for per radio links list | | | RCS1-351 |
| -Downlink information for each radio links | | | RCS1-352 |
| - CHOICE mode | TDD | | RCS1-353 |
| - Primary CCPCH info | | | RCS1-354 |
| - CHOICE mode | TDD | | RCS1-355 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-356 |
| - TSTD indicator | FALSE | | RCS1-357 |
| - Cell parameters ID | 0 | | RCS1-358 |
| - SCTD indicator | FALSE | | RCS1-359 |
| - Downlink DPCH info for each RL | | | RCS1-360 |
| - CHOICE mode | TDD | | RCS1-361 |
| - DL CCTrCH List | | | RCS1-362 |
| - TFCS ID | 1 | | RCS1-363 |
| - Time info | | | RCS1-364 |
| - Activation time | Not present | | RCS1-365 |
| - Duration | Not present | | RCS1-366 |
| - Common timeslot info | | | RCS1-367 |
| - 2 nd interleaving mode | Frame | | RCS1-368 |
| - TFCI coding | 8 bits | | RCS1-369 |
| - Puncturing limit | 1.0 | | RCS1-370 |
| - Repetition period | 1 | | RCS1-371 |
| - Repetition length | Empty | | RCS1-372 |

| Information Element | Value/remark | Version | Index |
|---------------------------------------|--|--------------------|----------|
| - Downlink DPCH timeslots and codes | | | RCS1-373 |
| - First Individual timeslot info | | | RCS1-374 |
| - Timeslot number | | | RCS1-375 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-376 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes in a subframe. | | RCS1-377 |
| - TFCI existence | TRUE | | RCS1-378 |
| - Midamble shift and burst type | | | RCS1-379 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-380 |
| - Midamble Allocation Mode | Default midamble | | RCS1-381 |
| - Midamble configuration | As defined in 3GPP TS 25.221 [28] | | RCS1-382 |
| - Midamble Shift | Not present | | RCS1-383 |
| - CHOICE TDD option | 1.28 Mcps | Rel-4 | RCS1-384 |
| - Modulation | QPSK | | RCS1-385 |
| - SS-TPC Symbols | 1 | | RCS1-386 |
| - Additional TPC-SS Symbols | Not present | | RCS1-387 |
| - First timeslot channelisation codes | | | RCS1-388 |
| - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set. | | RCS1-389 |
| - Last channelisation code | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS1-390 |
| - CHOICE more timeslots | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | | RCS1-391 |
| - UL CCTrCH TPC List | Not Present | | RCS1-392 |
| -SCCPCH information for FACH | Not Present | R99 and Rel-4 only | RCS1-393 |

Contents of RRC CONNECTION SETUP message: UM (7.68 Mcps TDD)

| Information Element | Value/remark | Version | Index |
|--|---|---------|----------|
| Message Type | | | RCS7-001 |
| Initial UE identity | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | | RCS7-002 |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | RCS7-003 |
| Activation time | Not Present(Now) | | RCS7-004 |
| New U-RNTI | | | RCS7-005 |
| - SRNC identity | 0000 0000 0001B | | RCS7-006 |
| - S-RNTI | 0000 0000 0000 0000 0001B | | RCS7-007 |
| New C-RNTI | Not Present | | RCS7-008 |
| New H-RNTI | Not Present | Rel-6 | RCS7-009 |
| CHOICE mode | TDD | Rel-7 | RCS7-010 |
| - New E-RNTI | Not Present | Rel-7 | RCS7-011 |
| RRC State Indicator | CELL_DCH | | RCS7-012 |
| UTRAN DRX cycle length coefficient | 9 | | RCS7-013 |
| Capability update requirement | | | RCS7-014 |
| - UE radio access FDD capability update requirement | FALSE | | RCS7-015 |
| - UE radio access TDD capability update requirement | TRUE | | RCS7-016 |
| - System specific capability update requirement list | GSM | | RCS7-017 |
| CHOICE <i>specification mode</i> | Complete specification | Rel-5 | RCS7-018 |
| - Complete specification | | Rel-5 | RCS7-019 |
| - Signalling RB information to setup list | 4 SRBs | | RCS7-020 |
| - Signalling RB information to setup | (UM DCCH for RRC) | | RCS7-021 |
| - RB identity | Not Present | | RCS7-022 |
| - CHOICE RLC info type | RLC info | | RCS7-023 |
| - CHOICE Uplink RLC mode | UM RLC | | RCS7-024 |
| - Transmission RLC discard | Not Present | | RCS7-025 |
| - CHOICE Downlink RLC mode | UM RLC | | RCS7-026 |
| - RB mapping info | | | RCS7-027 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-028 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - RLC logical channel mapping indicator | Not Present | | RCS7-029 |
| - Number of RLC logical channels | 1 | | RCS7-030 |
| - Uplink transport channel type | DCH | | RCS7-031 |
| - UL Transport channel identity | 5 | | RCS7-032 |
| - Logical channel identity | 1 | | RCS7-033 |
| - CHOICE RLC size list | Configured | | RCS7-034 |
| - MAC logical channel priority | 1 | | RCS7-035 |
| - Downlink RLC logical channel info | | | RCS7-036 |
| - Number of RLC logical channels | 1 | | RCS7-037 |
| - Downlink transport channel type | DCH | | RCS7-038 |
| - DL DCH Transport channel identity | 10 | | RCS7-039 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-040 |
| - Logical channel identity | 1 | | RCS7-041 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-042 |
| - Number of RLC logical channels | 1 | | RCS7-043 |
| - Uplink transport channel type | RACH | | RCS7-044 |
| - UL Transport channel identity | Not Present | | RCS7-045 |
| - Logical channel identity | 1 | | RCS7-046 |
| - CHOICE RLC size list | Configured | | RCS7-047 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-048 |
| - MAC logical channel priority | 1 | | RCS7-049 |
| - Downlink RLC logical channel info | | | RCS7-050 |
| - Number of RLC logical channels | 1 | | RCS7-051 |
| - Downlink transport channel type | FACH | | RCS7-052 |
| - DL DCH Transport channel identity | Not Present | | RCS7-053 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-054 |
| - Logical channel identity | 1 | | RCS7-055 |
| - Signalling RB information to setup | (AM DCCH for RRC) | | RCS7-056 |
| - RB identity | Not Present | | RCS7-057 |
| - CHOICE RLC info type | | | RCS7-058 |
| - RLC info | | | RCS7-059 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-060 |
| - Transmission RLC discard | | | RCS7-061 |
| - SDU discard mode | No Discard | | RCS7-062 |
| - MAX_DAT | 415 | | RCS7-063 |
| - Transmission window size | 128 | | RCS7-064 |
| - Timer_RST | 500 | | RCS7-065 |
| - Max_RST | 4 | | RCS7-066 |
| - Polling info | | | RCS7-067 |
| - Timer_poll_prohibit | 200 | | RCS7-068 |
| - Timer_poll | 200 | | RCS7-069 |
| - Poll_PDU | Not Present | | RCS7-070 |
| - Poll_SDU | 1 | | RCS7-071 |
| - Last transmission PDU poll | TRUE | | RCS7-072 |
| - Last retransmission PDU poll | TRUE | | RCS7-073 |
| - Poll_Windows | 99 | | RCS7-074 |
| - Timer_poll_periodic | Not Present | | RCS7-075 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-076 |
| - In-sequence delivery | TRUE | | RCS7-077 |
| - Receiving window size | 128 | | RCS7-078 |
| - Downlink RLC status info | | | RCS7-079 |
| - Timer_status_prohibit | 200 | | RCS7-080 |
| - Timer_EPC | Not Present | | RCS7-081 |
| - Missing PDU indicator | TRUE | | RCS7-082 |
| - Timer_STATUS_periodic | Not Present | | RCS7-083 |
| - RB mapping info | | | RCS7-084 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-085 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-086 |
| - Number of RLC logical channels | 1 | | RCS7-087 |
| - Uplink transport channel type | DCH | | RCS7-088 |
| - UL Transport channel identity | 5 | | RCS7-089 |
| - Logical channel identity | 2 | | RCS7-090 |
| - CHOICE RLC size list | Configured | | RCS7-091 |
| - MAC logical channel priority | 2 | | RCS7-092 |
| - Downlink RLC logical channel info | | | RCS7-093 |
| - Number of RLC logical channels | 1 | | RCS7-094 |
| - Downlink transport channel type | DCH | | RCS7-095 |

| Information Element | Value/remark | Version | Index |
|--|-------------------------------------|---------|----------|
| - DL DCH Transport channel identity | 10 | | RCS7-096 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-097 |
| - Logical channel identity | 2 | | RCS7-098 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-099 |
| - Number of RLC logical channels | 1 | | RCS7-100 |
| - Uplink transport channel type | RACH | | RCS7-101 |
| - UL Transport channel identity | Not Present | | RCS7-102 |
| - Logical channel identity | 2 | | RCS7-103 |
| - CHOICE RLC size list | Explicit List | | RCS7-104 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-105 |
| - MAC logical channel priority | 2 | | RCS7-106 |
| - Downlink RLC logical channel info | | | RCS7-107 |
| - Number of RLC logical channels | 1 | | RCS7-108 |
| - Downlink transport channel type | FACH | | RCS7-109 |
| - DL DCH Transport channel identity | Not Present | | RCS7-110 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-111 |
| - Logical channel identity | 2 | | RCS7-112 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) | | RCS7-113 |
| - RB identity | Not Present | | RCS7-114 |
| - CHOICE RLC info type | | | RCS7-115 |
| - RLC info | | | RCS7-116 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-117 |
| - Transmission RLC discard | | | RCS7-118 |
| - SDU discard mode | No Discard | | RCS7-119 |
| - MAX_DAT | 415 | | RCS7-120 |
| - Transmission window size | 128 | | RCS7-121 |
| - Timer_RST | 500 | | RCS7-122 |
| - Max_RST | 4 | | RCS7-123 |
| - Polling info | | | RCS7-124 |
| - Timer_poll_prohibit | 200 | | RCS7-125 |
| - Timer_poll | 200 | | RCS7-126 |
| - Poll_PDU | Not Present | | RCS7-127 |
| - Poll_SDU | 1 | | RCS7-128 |
| - Last transmission PDU poll | TRUE | | RCS7-129 |
| - Last retransmission PDU poll | TRUE | | RCS7-130 |
| - Poll_Windows | 99 | | RCS7-131 |
| - Timer_poll_periodic | Not Present | | RCS7-132 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-133 |
| - In-sequence delivery | TRUE | | RCS7-134 |
| - Receiving window size | 128 | | RCS7-135 |
| - Downlink RLC status info | | | RCS7-136 |
| - Timer_status_prohibit | 200 | | RCS7-137 |
| - Timer_EPC | Not Present | | RCS7-138 |
| - Missing PDU indicator | TRUE | | RCS7-139 |
| - Timer_STATUS_periodic | Not Present | | RCS7-140 |
| - RB mapping info | | | RCS7-141 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-142 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-143 |
| - Number of RLC logical channels | 1 | | RCS7-144 |
| - Uplink transport channel type | DCH | | RCS7-145 |
| -UL Transport channel identity | 5 | | RCS7-146 |
| - Logical channel identity | 3 | | RCS7-147 |
| - CHOICE RLC size list | Configured | | RCS7-148 |
| - MAC logical channel priority | 3 | | RCS7-149 |
| - Downlink RLC logical channel info | | | RCS7-150 |
| - Number of RLC logical channels | 1 | | RCS7-151 |
| - Downlink transport channel type | DCH | | RCS7-152 |
| - DL DCH Transport channel identity | 10 | | RCS7-153 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-154 |
| - Logical channel identity | 3 | | RCS7-155 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-156 |
| - Number of RLC logical channels | 1 | | RCS7-157 |
| - Uplink transport channel type | RACH | | RCS7-158 |
| - UL Transport channel identity | Not Present | | RCS7-159 |
| - Logical channel identity | 3 | | RCS7-160 |
| - CHOICE RLC size list | Explicit List | | RCS7-161 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-162 |

| Information Element | Value/remark | Version | Index |
|---|-------------------------------------|---------|----------|
| - MAC logical channel priority | 3 | | RCS7-163 |
| - Downlink RLC logical channel info | | | RCS7-164 |
| - Number of RLC logical channels | 1 | | RCS7-165 |
| - Downlink transport channel type | FACH | | RCS7-166 |
| - DL DCH Transport channel identity | Not Present | | RCS7-167 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-168 |
| - Logical channel identity | 3 | | RCS7-169 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) | | RCS7-170 |
| - RB identity | Not Present | | RCS7-171 |
| - CHOICE RLC info type | | | RCS7-172 |
| - RLC info | | | RCS7-173 |
| - CHOICE Uplink RLC mode | AM RLC | | RCS7-174 |
| - Transmission RLC discard | | | RCS7-175 |
| - SDU discard mode | No Discard | | RCS7-176 |
| - MAX_DAT | 15 | | RCS7-177 |
| - Transmission window size | 128 | | RCS7-178 |
| - Timer_RST | 500 | | RCS7-179 |
| - Max_RST | 4 | | RCS7-180 |
| - Polling info | | | RCS7-181 |
| - Timer_poll_prohibit | 200 | | RCS7-182 |
| - Timer_poll | 200 | | RCS7-183 |
| - Poll_PDU | Not Present | | RCS7-184 |
| - Poll_SDU | 1 | | RCS7-185 |
| - Last transmission PDU poll | TRUE | | RCS7-186 |
| - Last retransmission PDU poll | TRUE | | RCS7-187 |
| - Poll_Windows | 99 | | RCS7-188 |
| - Timer_poll_periodic | Not Present | | RCS7-189 |
| - CHOICE Downlink RLC mode | AM RLC | | RCS7-190 |
| - In-sequence delivery | TRUE | | RCS7-191 |
| - Receiving window size | 128 | | RCS7-192 |
| - Downlink RLC status info | | | RCS7-193 |
| - Timer_status_prohibit | 200 | | RCS7-194 |
| - Timer_EPC | Not Present | | RCS7-195 |
| - Missing PDU indicator | TRUE | | RCS7-196 |
| - Timer_STATUS_periodic | Not Present | | RCS7-197 |
| - RB mapping info | | | RCS7-198 |
| - Information for each multiplexing option | 2 RBMuxOptions | | RCS7-199 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-200 |
| - Number of RLC logical channels | 1 | | RCS7-201 |
| - Uplink transport channel type | DCH | | RCS7-202 |
| - UL Transport channel identity | 5 | | RCS7-203 |
| - Logical channel identity | 4 | | RCS7-204 |
| - CHOICE RLC size list | Configured | | RCS7-205 |
| - MAC logical channel priority | 4 | | RCS7-206 |
| - Downlink RLC logical channel info | | | RCS7-207 |
| - Number of RLC logical channels | 1 | | RCS7-208 |
| - Downlink transport channel type | DCH | | RCS7-209 |
| - DL DCH Transport channel identity | 10 | | RCS7-210 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-211 |
| - Logical channel identity | 4 | | RCS7-212 |
| - RLC logical channel mapping indicator | Not Present | | RCS7-213 |
| - Number of RLC logical channels | 1 | | RCS7-214 |
| - Uplink transport channel type | RACH | | RCS7-215 |
| - UL Transport channel identity | Not Present | | RCS7-216 |
| - Logical channel identity | 4 | | RCS7-217 |
| - CHOICE RLC size list | Explicit List | | RCS7-218 |
| - RLC size index | Reference to clause 6 Parameter Set | | RCS7-219 |
| - MAC logical channel priority | 4 | | RCS7-220 |
| - Downlink RLC logical channel info | | | RCS7-221 |
| - Number of RLC logical channels | 1 | | RCS7-222 |
| - Downlink transport channel type | FACH | | RCS7-223 |
| - DL DCH Transport channel identity | Not Present | | RCS7-224 |
| - DL DSCH Transport channel identity | Not Present | | RCS7-225 |
| - Logical channel identity | 4 | | RCS7-226 |
| UL Transport channel information for all transport channels | | | RCS7-227 |
| - PRACH TFCS | Not Present | | RCS7-228 |

| Information Element | Value/remark | Version | Index |
|---|--|---------|----------|
| - CHOICE Mode | TDD | | RCS7-229 |
| - Individual UL CCTrCH information | | | RCS7-230 |
| - UL TFCS ID | (This IE is repeated for TFC number.) | | RCS7-231 |
| - UL TFCS | | | RCS7-232 |
| - TFC subset | | | RCS7-233 |
| - Allowed Transport Format combination | Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) | | RCS7-234 |
| - PRACH TFCS | | | RCS7-235 |
| - CHOICE TFCI signalling | Normal | | RCS7-236 |
| - TFCI Field 1 information | | | RCS7-237 |
| - TFCI complete reconfigure | | | RCS7-238 |
| information | | | RCS7-239 |
| - CHOICE TFCS Size | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set | | RCS7-239 |
| - CTFC information | Not Present | | RCS7-240 |
| - CHOICE mode | TDD | | RCS7-241 |
| - Individual UL CCTrCH information | Not Present | | RCS7-242 |
| Deleted TrCH information list | Not Present | | RCS7-243 |
| Added or Reconfigured UL TrCH information list | 1 | | RCS7-244 |
| - Added or Reconfigured UL TrCH information | | | RCS7-245 |
| - Uplink transport channel type | DCH | | RCS7-246 |
| - UL Transport channel identity | 5 | | RCS7-247 |
| - TFS | | | RCS7-248 |
| - CHOICE Transport channel type | Dedicated transport channels | | RCS7-249 |
| - Dynamic Transport Format Information | | | RCS7-250 |
| - RLC size | According to clause 6 | | RCS7-251 |
| - Number of TBs and TTI List | (This IE is repeated for TFI number) | | RCS7-252 |
| - CHOICE mode | TDD | | RCS7-253 |
| - Transmission Time Interval | According to clause 6 | | RCS7-254 |
| - CHOICE Logical channel list | All | | RCS7-255 |
| - Semi-static Transport Format information | | | RCS7-256 |
| DL Transport channel information common for all transport channel | | | RCS7-257 |
| - SCCPCH TFCS | Not Present | | RCS7-258 |
| - CHOICE mode | TDD | | RCS7-259 |
| - CHOICE DL parameters | Same as UL | | RCS7-260 |
| Added or Reconfigured DL TrCH information list | 1 | | RCS7-261 |
| - Added or Reconfigured DL TrCH information | | | RCS7-262 |
| - Downlink transport channel type | DCH | | RCS7-263 |
| - DL Transport channel identity | 10 | | RCS7-264 |
| - CHOICE DL parameters | Same as UL | | RCS7-265 |
| - Uplink transport channel type | DCH | | RCS7-266 |
| - UL TrCH Identity | 5 | | RCS7-267 |
| - DCH quality target | | | RCS7-268 |
| - BLER Quality value | Reference to the present document | | RCS7-269 |
| Frequency info | Not Present | | RCS7-270 |
| DTX-DRX timing information | Not Present | Rel-7 | RCS7-271 |
| DTX-DRX information | Not Present | Rel-7 | RCS7-272 |
| HS-SCCH less information | Not Present | Rel-7 | RCS7-273 |
| MIMO parameters | Not Present | Rel-7 | RCS7-274 |
| Maximum allowed UL TX power | Not Present | | RCS7-275 |
| Uplink DPCH info | | Rel-6 | RCS7-276 |
| - Uplink DPCH power control info | | | RCS7-277 |
| - CHOICE mode | TDD | | RCS7-278 |
| - CHOICE <i>TDD option</i> | 7.68 Mcps | Rel-7 | RCS7-279 |
| - UL target SIR | Reference to clause 6 Parameter set | | RCS7-280 |
| - CHOICE mode | TDD | | RCS7-281 |
| - CHOICE <i>UL OL PC info</i> | Individually signalled | | RCS7-282 |
| - CHOICE <i>TDD option</i> | 7.68 Mcps | Rel-7 | RCS7-283 |
| - Individual timeslot interference info | Not Present | | RCS7-284 |
| - Individual timeslot interference | | | RCS7-285 |
| - DPCH Constant Value | | | RCS7-286 |
| - Primary CCPCH Tx Power | Not Present | | RCS7-287 |
| - Time info | | | RCS7-288 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 | | RCS7-289 |

| Information Element | Value/remark | Version | Index |
|---|---|-----------------------|----------|
| - Duration | Infinite | | RCS7-290 |
| - Common timeslot info | | | RCS7-291 |
| - 2 nd interleaving mode | Reference to clause 6.11 Parameter Set | | RCS7-292 |
| - TFCI coding | Reference to clause 6.11 Parameter Set | | RCS7-293 |
| - Puncturing Limit | Reference to clause 6.11 Parameter Set | | RCS7-294 |
| - Repetition Period | Reference to clause 6.11 Parameter Set | | RCS7-295 |
| - Repetition Length | Reference to clause 6.11 Parameter Set | | RCS7-296 |
| - CHOICE TDD Option | 7.68 Mcps | Rel-7 | RCS7-297 |
| - Uplink DPCH timeslots and codes | Default is to use the old timeslots and codes | Rel-7 | RCS7-298 |
| VHCR - CPCH SET Info | (no data) | R99 and Rel-4 only | RCS7-299 |
| Downlink information common for all radio links | | | RCS7-300 |
| - Downlink DPCH info common for all RL | | | RCS7-301 |
| - Timing Indication | Initialize | | RCS7-302 |
| - CFN-targetSFN frame offset | Not Present | | RCS7-303 |
| - Downlink DPCH power control information | | | RCS7-304 |
| - DPC mode | 0 (single) | | RCS7-305 |
| - CHOICE mode | TDD | | RCS7-306 |
| - CHOICE TDD option | 7.68 Mcps (no data) | Rel-7 | RCS7-307 |
| - Default DPCH Offset Value | Not Present | | RCS7-308 |
| Downlink information for per radio links list | | | RCS7-309 |
| -Downlink information for each radio links | | | RCS7-310 |
| - CHOICE mode | TDD | | RCS7-311 |
| - Primary CCPCH info | | | RCS7-312 |
| - CHOICE mode | TDD | | RCS7-313 |
| - CHOICE TDD option | 7.68 Mcps | Rel-7 | RCS7-314 |
| - CHOICE SyncCase | Sync Case 1 | | RCS7-315 |
| - Timeslot | PCCPCH timeslot | | RCS7-316 |
| - Cell parameters ID | 0 | | RCS7-317 |
| - SCTD indicator | | | RCS7-318 |
| - CHOICE DPCH info | Downlink DPCH info for each RL | Rel-6 | RCS7-319 |
| - Downlink DPCH info for each RL | | | RCS7-320 |
| - CHOICE mode | TDD | | RCS7-321 |
| - DL CCTrCH List | | | RCS7-322 |
| - TFCS ID | 1 | | RCS7-323 |
| - Time info | | | RCS7-324 |
| - Activation time | $(256+CFN-(CFN \bmod 8 + 8)) \bmod 256$ | | RCS7-325 |
| - Duration | infinite | | RCS7-326 |
| - Common timeslot info | | | RCS7-327 |
| - 2 nd interleaving mode | Reference to the present document | | RCS7-328 |
| - TFCI coding | TRUE | | RCS7-329 |
| - Puncturing limit | Reference to clause 6 Parameter set | | RCS7-330 |
| - Repetition period | 1 | | RCS7-331 |
| - Repetition length | Empty | | RCS7-332 |
| - Downlink DPCH timeslots and codes | | Rel-7 | RCS7-333 |
| VHCR - CHOICE more timeslots | | | RCS7-334 |
| - CHOICE TDD option | 7.68 Mcps | Rel-7 | RCS7-335 |
| - Timeslot number | The number of a downlink timeslot that has unassigned codes in a frame. | | RCS7-336 |
| - Individual timeslot info | | | RCS7-337 |
| - TFCI existence | TRUE | | RCS7-338 |
| - Midamble shift and burst type | | | RCS7-339 |
| - CHOICE TDD option | 7.68 Mcps | | RCS7-340 |
| -CHOICE Burst Type | | | RCS7-341 |
| -Type 1 | | | RCS7-342 |
| -Midamble Allocation Mode | Default | | RCS7-343 |
| - Midamble configuration burst | As defined in 3GPP TS 25.221 [28] | | RCS7-344 |
| type 1 and 3 | | | RCS7-345 |
| - First timeslot channelisation codes | | | RCS7-346 |
| - First channelisation code | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. | | |
| - Last channelisation code | (j/SF) where j is the highest numbered code that is being assigned in the slot. | | RCS7-347 |
| - CHOICE more timeslots | The presence of this IE depends upon | | RCS7-348 |

| Information Element | Value/remark | Version | Index |
|---|---|--------------------|----------------------|
| - UL CCTrCH TPC List - SCCPCH information for FACH | whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. Not Present Not Present | R99 and Rel-4 only | RCS7-349 RCS7-350 |

Contents of SECURITY MODE COMMAND message: AM

| Information Element | Condition | Value/remark |
|---|-----------|---|
| Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message Sequence Number Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm | A1, A2 | Arbitrarily selects an integer between 0 and 3 Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. Set to an arbitrarily selected integer between 0 and 15 If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. Spare 2-15 = FALSE 0000000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Start/restart |
| info - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number | | UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Use the same ciphering algorithm specified in "ciphering Not Present 1 Current RLC SN 2 Current RLC SN+3(or Calculated Value) 3 Current RLC SN 4 Current RLC SN Start Not Present UIA1 SS selects an arbitrary 32 bits number |

| Information Element | Condition | Value/remark |
|---|-----------|---|
| CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE <i>system</i> - GSM security capability | A1 A2 | for FRESH CS or PS Not Checked GSM The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message. |

| Condition | Explanation |
|-----------|-----------------------|
| A1 | UE not supporting GSM |
| A2 | UE supporting GSM |

10 Void

11 MBMS configurations for signalling test

Clause 11.1 specifies MCCH configurations for MBMS and MBSFN FDD mode. Clause 11.2 specifies MCCH configurations for MBSFN for 3.84 Mcps and 7.68 Mcps TDD

11.1 MCCH configurations

11.1.1 MCCH configuration parameters

MCCH is configured stand-alone on a separate SCCPCH for test. Four typical MCCH scheduling configurations are included in the clause. The MCCH RAB is found in 6.10.2.4.3.8.

11.1.1.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters | Values | Comments |
|---|------------|-------------|
| Modification period (mp) | 512 frames | 5.12 s |
| Repetition period (rp) | 128 frames | 1.28 s |
| Access information period (aip) | 64 frames | 0.64 s |
| MCCH configuration (number of mp-rp-aip) | 1-4-8 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |
| Max. MBMS neighbouring cells | 15 | |
| Max. MBMS services | 12 | |

11.1.1.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters | Values | Comments |
|---|------------|-------------|
| Modification period (mp) | 256 frames | 2.56 s |
| Repetition period (rp) | 128 frames | 1.28 s |
| Access information period (aip) | 64 frames | 0.64 s |
| MCCH configuration (number of mp-rp-aip) | 1-2-4 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |
| Max. MBMS neighbouring cells | 8 | |
| Max. MBMS services | 12 | |

11.1.1.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters | Values | Comments |
|---|-------------|-------------|
| Modification period (mp) | 1024 frames | 10.24 s |
| Repetition period (rp) | 256 frames | 2.56 s |
| Access information period (aip) | 128 frames | 1.28 s |
| MCCH configuration (number of mp-rp-aip) | 1-4-8 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets | 2432 octets |
| Max. MBMS neighbouring cells | 15 | |
| Max. MBMS services | 16 | |

11.1.1.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters | Values | Comments |
|---|--------------|------------|
| Modification period (mp) | 128 frames | 1.28 s |
| Repetition period (rp) | 64 frames | 0.64 s |
| Access information period (aip) | 16 frames | 0.16 s |
| MCCH configuration (number of mp-rp-aip) | 1-2-8 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 608 octets |
| Max. MBMS neighbouring cells | 8 | |
| Max. MBMS services | 12 | |

11.1.2 MCCH messages transmission in test

The clause provides rules for MCCH messages transmission for MBMS test.

A whole set of MCCH messages is repeatedly transmitted.

The sending of the whole set of critical MCCH information messages is started at the first TTI of a repetition period if no ACCESS INFORMATION message is sent.

No ACCESS INFORMATION messages shall be transmitted in the modification period unless explicitly mentioned in the Test Procedure or Expected Sequence.

In case an ACCESS INFORMATION message transmission is explicitly mentioned in the test procedure or expected sequence these shall be transmitted starting at the first frame of the second access information period of the modification period, after MBMS MODIFIED SERVICES INFORMATION, unless stated otherwise. If the test case procedure describes more than one ACCESS INFORMATION message in the same modification period, this means that an ACCESS INFORMATION message is transmitted in every access info period from the first message until the end of the modification period, unless stated otherwise.

If an ACCESS INFORMATION message is to be sent in the access information period in a repetition period the critical MCCH messages are transmitted in the next frame after the ACCESS INFORMATION message.

If an ACCESS INFORMATION message is to be sent in the access information period that is not the first access information period in a repetition period,

And if a critical MCCH message is segmented into several RLC PDUs with consecutive sequence numbers and is occasionally, only partially transmitted at the end of the preceding access information period, the remaining RLC PDUs shall be transmitted after ACCESS INFORMATION (as out of sequence delivery) in the next access information period within the repetition period.

If an MBMS service is changed, this will be notified on MICH during one entire modification period before the change occurs. The service should then appear in MBMS MODIFIED SERVICES INFORMATION for one modification period, and then in the next modification period move to MBMS UNMODIFIED SERVICES INFORMATION. The MBMS MODIFIED SERVICES INFORMATION message should be transmitted once per repetition period throughout the modification period. All MCCH messages will contain the same content during and after this service change, except for MBMS MODIFIED SERVICES INFORMATION and MBMS UNMODIFIED SERVICES INFORMATION, unless stated otherwise in the test procedure.

11.1.3 Combinations and transmission order of critical MCCH messages

| Combination Id | Ordered message combinations | comment |
|----------------|--|--|
| C1 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION | No session ongoing or PTP session ongoing. |
| C2 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION | PTM sessions are ongoing, no service modification and no neighbouring cells are defined |
| C3 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell) | PTM sessions are ongoing, no service modification |
| C4 | MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + MBMS UNMODIFIED SERVICES INFORMATION | PTM sessions are ongoing or starting, service modification indicated, no neighbouring cells (for one modification period) |
| C5 | MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell related to modified services) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell not related to modified services) | PTM sessions are ongoing or starting, service modification indicated (for one modification period) |
| C6 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION (empty services_list) + MBMS GENERAL INFORMATION | No MBMS services |
| C7 | MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS UNMODIFIED SERVICES INFORMATION | PTP sessions are starting or another required UE action. MBMS UNMODIFIED SERVICES INFORMATION may or may not contain services. |

NOTE 1: PTM test cases shall use message combinations C2 and C4 by default, according to the rules in clause 11.1.2, unless stated otherwise. If MBMS neighbouring cells are configured in the PTM test case then combinations C3 and C5 shall be used unless stated otherwise. PTP and counting test cases shall use message combinations C6 and C7, unless stated otherwise.

NOTE 2: If combination C6 is used in the initial condition, then the list of services in MBMS UNMODIFIED SERVICES INFORMATION will be empty. Then if any service is modified this will be added to the list, so the list of services will grow during the test (e.g. C6->C4->C2 or C6->C5->C3 or C6->C7->C6). If combination C1 is used in the initial condition then a total of 12 services will always be included in MBMS UNMODIFIED SERVICES INFORMATION and MBMS MODIFIED SERVICES INFORMATION (e.g. C1->C4->C2 or C1->C5->C3 or C1->C7->C6).

11.2 MCCH configurations for MBSFN (TDD)

11.2.1 MCCH configuration parameters

11.2.1.1 Non-IMB

MCCH is configured stand-alone on a separate SCCPCH for testing MBSFN. Four typical MCCH scheduling configurations are included in this clause. The MCCH RB is found in clause 6.10.3.4.4.12 (3.84 Mcps TDD) or 6.11.5.4.4.12(1.28 Mcps TDD) or 6.11.6.4.4.12 (7.68 Mcps TDD).

11.2.1.1.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters | Values | Comments |
|---|------------|--|
| Modification period (mp) | 512 frames | 5.12s. Modification period coefficient = 9 |
| Repetition period (rp) | 128 frames | 1.28s. Repetition period coefficient = 2 |
| MCCH configuration (number of mp-rp) | 1-4 | |
| MCCH data rate | 7.2 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1152 octets |

11.1.1.1.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters | Values | Comments |
|---|------------|--|
| Modification period (mp) | 256 frames | 2.56s. Modification period coefficient = 8 |
| Repetition period (rp) | 128 frames | 1.28s. Repetition period coefficient = 1 |
| MCCH configuration (number of mp-rp) | 1-2 | |
| MCCH data rate | 7.2 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1152 octets |

11.1.1.1.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters | Values | Comments |
|---|-------------|--|
| Modification period (mp) | 1024 frames | 10.24s. Modification period coefficient = 10 |
| Repetition period (rp) | 256 frames | 2.56s. Repetition period coefficient = 2 |
| MCCH configuration (number of mp-rp) | 1-4 | |
| MCCH data rate | 7.2 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets | 2304 octets |

11.1.1.1.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters | Values | Comments |
|---|--------------|---|
| Modification period (mp) | 128 frames | 1.28 s. Modification period coefficient = 7 |
| Repetition period (rp) | 64 frames | 0.64 s. Repetition period coefficient = 1 |
| MCCH configuration (number of mp-rp) | 1-2 | |
| MCCH data rate | 7.2 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 576 octets |

11.2.1.2 IMB

MCCH is configured stand-alone on a separate SCCPCH for testing MBSFN. Four typical MCCH scheduling configurations are included in this clause. The MCCH RB is found in clause 6.11.7.4.1.1.

11.2.1.2.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters | Values | Comments |
|---|------------|--|
| Modification period (mp) | 512 frames | 5.12s. Modification period coefficient = 9 |
| Repetition period (rp) | 128 frames | 1.28s. Repetition period coefficient = 2 |
| MCCH configuration (number of mp-rp) | 1-4 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |

11.1.1.2.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters | Values | Comments |
|---|------------|--|
| Modification period (mp) | 256 frames | 2.56s. Modification period coefficient = 8 |
| Repetition period (rp) | 128 frames | 1.28s. Repetition period coefficient = 1 |
| MCCH configuration (number of mp-rp) | 1-2 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |

11.1.1.2.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters | Values | Comments |
|---|-------------|--|
| Modification period (mp) | 1024 frames | 10.24s. Modification period coefficient = 10 |
| Repetition period (rp) | 256 frames | 2.56s. Repetition period coefficient = 2 |
| MCCH configuration (number of mp-rp) | 1-4 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets | 2432 octets |

11.1.1.2.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters | Values | Comments |
|---|--------------|---|
| Modification period (mp) | 128 frames | 1.28 s. Modification period coefficient = 7 |
| Repetition period (rp) | 64 frames | 0.64 s. Repetition period coefficient = 1 |
| MCCH configuration (number of mp-rp) | 1-2 | |
| MCCH data rate | 7.6 kbs | |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 608 octets |

11.2.2 MCCH messages transmission in test

This clause provides rules for MCCH message transmission for MBMS testing on MBSFN clusters.

A whole set of MCCH messages is repeatedly transmitted.

The sending of the whole set of critical MCCH information messages is started at the first TTI of a repetition period.

If an MBMS service is changed, this will be notified on MICH during one entire modification period before the change occurs. The service should then appear in MBMS MODIFIED SERVICES INFORMATION for one modification period, and then in the next modification period move to MBMS UNMODIFIED SERVICES INFORMATION. The MBMS MODIFIED SERVICES INFORMATION message should be transmitted once per repetition period throughout the modification period. All MCCH messages will contain the same content during and after this service change, except for MBMS MODIFIED SERVICES INFORMATION and MBMS UNMODIFIED SERVICES INFORMATION, unless stated otherwise in the test procedure.

11.2.3 Combinations and transmission order of critical MCCH messages

| Combination Id | Ordered message combinations | comment |
|----------------|--|--|
| C1 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION | No session ongoing. |
| C2 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON P-T-M RB INFORMATION + MBMS CURRENT CELL P-T-M RB INFORMATION | PTM sessions are ongoing, no service modification |
| C3 | Reserved | |
| C4 | MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL P-T-M RB INFORMATION + MBMS UNMODIFIED SERVICES INFORMATION | PTM sessions are ongoing or starting, service modification indicated (for one modification period) |
| C5 | Reserved | |
| C6 | MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION (empty services_list) + MBMS GENERAL INFORMATION | No MBMS services |
| C7 | Reserved | |

NOTE 1: MBSFN test cases shall use message combinations C2 and C4 by default, according to the rules in clause 11.2.2, unless stated otherwise.

NOTE 2: If combination C6 is used in the initial condition, then the list of services in MBMS UNMODIFIED SERVICES INFORMATION will be empty. Then if any service is modified this will be added to the list, so the list of services will grow during the test (e.g. C6->C4->C2). If combination C1 is used in the initial condition then a total of 8 services will always be included in MBMS UNMODIFIED SERVICES INFORMATION and MBMS MODIFIED SERVICES INFORMATION (e.g. C1->C4->C2).

11.2.4 MBSFN service availability

11.2.4.1 Non-IMB

By default a total of 14 MBMS services are defined. However, in each cell only a selection of these services are available.

The default cell environment comprising Cell 31 to Cell 38 is configured to simulate four geographical service areas. In each service area there is one cell (cluster) on carrier frequency f1 (referred to as the Dedicated National Carrier) providing only nationally available services and another cell (cluster) on carrier frequency f2 (referred to as the Mixed Local/National Carrier) providing a mix of national and local services. By default all cells will provide notification of all services available in that service area. The default allocation of cells to carrier frequencies is defined by a combination of clause 6.1 and clause 5.1.2.

Cell 31, Cell 32, Cell 37 and Cell 38 will by default provide Dedicated National Carrier services. Cell 33, Cell 34, Cell 35 and Cell 36 will by default provide Mixed Local/National Carrier services. The default service availability in each cell is given in Table 11.2.4-1.

Table 11.2.4-1: Default Service Availability in Cell 31 - Cell 38

| MBMS Service ID | Cell 31 | Cell 32 | Cell 33 | Cell 34 | Cell 35 | Cell 36 | Cell 37 | Cell 38 | Comments |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|
| 000001 | X | X | | | | | X | X | National service 1 |
| 000002 | X | X | | | | | X | X | National service 2 |
| 000003 | X | X | | | | | X | X | National service 3 |
| 000004 | X | X | | | | | X | X | National service 4 |
| 000005 | | | X | X | X | X | | | National service 5 |
| 000006 | | | X | X | X | X | | | National service 6 |
| 010001 | | | X | | | | | | Service Area 1 local service 1 |
| 010002 | | | X | | | | | | Service Area 1 local service 2 |
| 020001 | | | | X | | | | | Service Area 2 local service 1 |
| 020002 | | | | X | | | | | Service Area 2 local service 2 |
| 030001 | | | | | X | | | | Service Area 3 local service 1 |
| 030002 | | | | | X | | | | Service Area 3 local service 2 |
| 040001 | | | | | | X | | | Service Area 4 local service 1 |
| 040002 | | | | | | X | | | Service Area 4 local service 2 |

11.2.4.2 IMB

A total of 6 MBMS services are defined. However, in each cell only a selection of these services are available.

The default cell environment comprising Cell 31 to Cell 38 is configured to simulate four geographical service areas. By default all cells will provide notification of all services available in that service area. The default allocation of cells to carrier frequencies is defined by a combination of clause 6.1 and clause 5.1.2.

The default service availability in each cell is given in Table 11.2.4-2.

Table 11.2.4-2: Default Service Availability in Cell 31 - Cell 38

| MBMS Service ID | Cell 31 | Cell 32 | Cell 33 | Cell 34 | Cell 35 | Cell 36 | Cell 37 | Cell 38 | Comments |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| 000001 | X | X | | | | | X | X | National service 1 |
| 000002 | X | X | | | | | X | X | National service 2 |
| 000003 | X | X | | | | | X | X | National service 3 |
| 000004 | X | X | | | | | X | X | National service 4 |
| 000005 | | | X | X | X | X | | | National service 5 |
| 000006 | | | X | X | X | X | | | National service 6 |

Annex A to C (informative):
Void

Annex D (informative): Change history

| Meeting-1st-Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version-Current | Version-New | Doc-2nd-Level |
|-------------------|---------------|-----|-----|---|-----|-----------------|-------------|---------------|
| TP-08 | | | | Approval of the specification | | 2.0.0 | 3.0.0 | |
| TP-09 | TP-000131 | 001 | | RRC Message Contents: RLCSize | C | 3.0.1 | 3.1.0 | T1-000190 |
| TP-09 | TP-000131 | 002 | | RRC Message Contents: RLCParam | C | 3.0.1 | 3.1.0 | T1-000191 |
| TP-09 | TP-000131 | 003 | | RRC Message Contents: PCPreamble | C | 3.0.1 | 3.1.0 | T1-000192 |
| TP-09 | TP-000131 | 004 | | RRC Message Contents: RBIdentity | C | 3.0.1 | 3.1.0 | T1-000193 |
| TP-09 | TP-000131 | 005 | | RRC Message Contents: TrCHParam | C | 3.0.1 | 3.1.0 | T1-000194 |
| TP-09 | TP-000131 | 006 | | RRC Message Contents: UECapability | C | 3.0.1 | 3.1.0 | T1-000195 |
| TP-09 | TP-000131 | 007 | | RRC Message Contents: RBMapping | C | 3.0.1 | 3.1.0 | T1-000196 |
| TP-09 | TP-000131 | 008 | | RRC Message Contents: PagingCause | C | 3.0.1 | 3.1.0 | T1-000197 |
| TP-09 | TP-000131 | 009 | | RRC Message Contents: CipheringAndIntegrity | C | 3.0.1 | 3.1.0 | T1-000198 |
| TP-09 | TP-000131 | 010 | | RRC Message Contents: RLCInfo | C | 3.0.1 | 3.1.0 | T1-000199 |
| TP-09 | TP-000131 | 011 | | RRC Message Contents: CompressedMode | C | 3.0.1 | 3.1.0 | T1-000200 |
| TP-09 | TP-000131 | 012 | | RRC Message Contents: SIB | C | 3.0.1 | 3.1.0 | T1-000201 |
| TP-09 | TP-000131 | 013 | | RRC Message Contents: PhyCH | D | 3.0.1 | 3.1.0 | T1-000202 |
| TP-09 | TP-000131 | 014 | | RRC Message Contents: Measurement | C | 3.0.1 | 3.1.0 | T1-000203 |
| TP-09 | TP-000131 | 015 | | RRC Message Contents: TFCS | C | 3.0.1 | 3.1.0 | T1-000204 |
| TP-09 | TP-000131 | 016 | | RRC Message Contents: DPCHFrameOffset | C | 3.0.1 | 3.1.0 | T1-000205 |
| TP-09 | TP-000131 | 017 | | Test USIM Parameters | F | 3.0.1 | 3.1.0 | T1-000215 |
| TP-09 | TP-000131 | 018 | | Correction to definition of the test algorithm for authentication (clause 8.1.2) | F | 3.0.1 | 3.1.0 | T1-000164 |
| TP-09 | TP-000131 | 019 | | Reference Radio Bearer Configurations | F | 3.0.1 | 3.1.0 | T1-000212 |
| TP-09 | TP-000131 | 020 | | TDD Single mode | F | 3.0.1 | 3.1.0 | T1-000220 |
| TP-10 | TP-000215 | 021 | | Common generic procedure for AS testing | B | 3.1.0 | 3.2.0 | T1-000294 |
| TP-10 | TP-000215 | 022 | | Requirements for the system simulator for support of Tcell parameter | F | 3.1.0 | 3.2.0 | T1-000303 |
| TP-10 | TP-000215 | 023 | | Minimum Performance Levels | F | 3.1.0 | 3.2.0 | T1-000306 |
| TP-10 | TP-000215 | 024 | | Downlink signal conditions and propagation conditions | D | 3.1.0 | 3.2.0 | T1-000307 |
| TP-10 | TP-000215 | 025 | | Updating 34.108 v3.1.0 to TDD single mode | F | 3.1.0 | 3.2.0 | T1-000281 |
| TP-10 | TP-000215 | 026 | | Application of integrity mode protection to signalling message by default | F | 3.1.0 | 3.2.0 | T1-000296 |
| TP-10 | TP-000215 | 027 | | Updates to the default message contents in clause 9 | C | 3.1.0 | 3.2.0 | T1-000282 |
| TP-10 | TP-000215 | 028 | | Updates to System Information Block (SIB) and Master Information Block (MIB) messages | C | 3.1.0 | 3.2.0 | T1-000283 |
| TP-10 | TP-000215 | 029 | | Application of ciphering during conformance testing | C | 3.1.0 | 3.2.0 | T1-000285 |
| TP-10 | TP-000215 | 030 | | Addition for System Information parameters (34.108 clause 6.1) | F | 3.1.0 | 3.2.0 | T1-000304 |
| TP-10 | TP-000215 | 031 | | Correction for Generic Setup Procedures (34.108 clause 7.2) | F | 3.1.0 | 3.2.0 | T1-000305 |
| TP-11 | TP-010018 | 032 | | Default radio conditions for multi-cell environment | F | 3.2.0 | 3.3.0 | T1-010078 |
| TP-11 | TP-010018 | 033 | | Correction for Generic Setup Procedures (34.108 clause 7.2) | F | 3.2.0 | 3.3.0 | T1-010079 |
| TP-11 | TP-010018 | 034 | | Corrections for Test USIM Parameters(34.108 clause 8) | F | 3.2.0 | 3.3.0 | T1-010080 |
| TP-11 | TP-010018 | 035 | | Correction of clause number in TS 34.108. | D | 3.2.0 | 3.3.0 | T1-010081 |
| TP-11 | TP-010018 | 036 | | Update of authentication test algorithm | C | 3.2.0 | 3.3.0 | T1-010082 |
| TP-11 | TP-010018 | 037 | | Updates to clause 9 of TS 34.108 v3.2.0 | F | 3.2.0 | 3.3.0 | T1-010084 |
| TP-11 | TP-010018 | 038 | | Updating to TDD single mode | F | 3.2.0 | 3.3.0 | T1-010088 |
| TP-11 | TP-010018 | 039 | | Simulated network environments for TDD mode (SIB) | F | 3.2.0 | 3.3.0 | T1-010089 |
| TP-12 | TP-010118 | 040 | | Corrections to clause 6.10 FDD parameters | F | 3.3.0 | 3.4.0 | T1-010205 |
| TP-12 | TP-010118 | 041 | | Corrections to clause 6.10 TDD parameters | F | 3.3.0 | 3.4.0 | T1-010206 |
| TP-12 | TP-010118 | 042 | | Adding section for radio bearer configurations intended for functional testing | D | 3.3.0 | 3.4.0 | T1-010210 |
| TP-12 | TP-010118 | 043 | | Update of list of abbreviations | D | 3.3.0 | 3.4.0 | T1-010211 |
| TP-12 | TP-010118 | 044 | | Updates to clause 6.1 and 9 | F | 3.3.0 | 3.4.0 | T1-010212 |
| TP-12 | TP-010118 | 045 | | Updates to clause 7.4 | F | 3.3.0 | 3.4.0 | T1-010213 |
| TP-12 | TP-010118 | 046 | | clause 6.1: System Information Blocks for TDD Mode | F | 3.3.0 | 3.4.0 | T1-010214 |
| TP-12 | TP-010118 | 047 | | Editorial corrections and removal of a reference document | F | 3.3.0 | 3.4.0 | T1-010215 |
| TP-13 | TP-010215 | 048 | | Correction to reference | F | 3.4.0 | 3.5.0 | T1-010275 |
| TP-13 | TP-010215 | 049 | | Editorial modification for References | F | 3.4.0 | 3.5.0 | T1-010276 |
| TP-13 | TP-010215 | 050 | | Some corrections in clause 5 | F | 3.4.0 | 3.5.0 | T1-010277 |
| TP-13 | TP-010215 | 051 | | Update to Scope Statement | F | 3.4.0 | 3.5.0 | T1-010278 |
| TP-13 | TP-010215 | 052 | | Clause 6.10 Definition of RB configurations, TDD parameters | F | 3.4.0 | 3.5.0 | T1-010279 |
| TP-13 | TP-010215 | 053 | | Updates to clause 6.1, clause 7.4 and clause 9 | F | 3.4.0 | 3.5.0 | T1-010280 |
| TP-13 | TP-010215 | 054 | | Clause 6.1: Default radio conditions for Signalling tests | F | 3.4.0 | 3.5.0 | T1-010281 |

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| TP-13 | TP-010215 | 055 | | Correction of Radio Bearer Configurations for FDD Mode | F | 3.4.0 | 3.5.0 | T1-010282 |
| TP-13 | TP-010215 | 056 | | Correction of Radio Bearer Configurations for TDD Mode | F | 3.4.0 | 3.5.0 | T1-010283 |
| TP-13 | TP-010215 | 057 | | Changes to Signalling Radio Bearer (SRB) numbering | F | 3.4.0 | 3.5.0 | T1-010284 |
| TP-13 | TP-010215 | 058 | | Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1 | F | 3.4.0 | 3.5.0 | T1-010285 |
| TP-13 | TP-010215 | 059 | | Correction of system information block 5 | F | 3.4.0 | 3.5.0 | T1-010286 |
| TP-13 | TP-010215 | 060 | | Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6 | F | 3.4.0 | 4.0.0 | T1-010287 |
| TP-13 | TP-010215 | 061 | | Introduction of System Information Blocks for 1.28 Mcps TDD Mode | F | 3.4.0 | 4.0.0 | T1-010288 |
| TP-13 | TP-010215 | 062 | | Introduction of typical radio parameters for 1.28 McpsTDD | F | 3.4.0 | 4.0.0 | T1-010289 |
| TP-13 | TP-010215 | 063 | | Clause 6.11 RBs for RLC and PDCP testing | F | 3.4.0 | 3.5.0 | T1-010290 |
| TP-14 | TP-010285 | 065 | 1 | Correction to 6.1 Contents of System Information Blocks | A | 4.0.0 | 4.1.0 | T1-010475 |
| TP-14 | TP-010285 | 067 | 1 | Corrections to clause 6.1, 7.4 and 9 | A | 4.0.0 | 4.1.0 | T1-010473 |
| TP-14 | TP-010258 | 069 | | Reference Radio Conditions | A | 4.0.0 | 4.1.0 | T1-010461 |
| TP-14 | TP-010258 | 071 | | Modification of Test procedures for RF tests | A | 4.0.0 | 4.1.0 | T1-010463 |
| TP-14 | TP-010258 | 073 | | Default message contents for RF tests | A | 4.0.0 | 4.1.0 | T1-010465 |
| TP-14 | TP-010258 | 075 | | Correction to 6.10 Reference Radio Bearer configurations | A | 4.0.0 | 4.1.0 | T1-010467 |
| TP-14 | TP-010258 | 077 | | Definition of default value of rate matching attribute | A | 4.0.0 | 4.1.0 | T1-010469 |
| TP-14 | TP-010258 | 079 | | Update of clause 7.4 and 6.10 | A | 4.0.0 | 4.1.0 | T1-010471 |
| TP-14 | TP-010292 | 081 | | Correction on introduction of clause 6.10 | A | 4.0.0 | 4.1.0 | -- |
| TP-15 | TP-020038 | 083 | | Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4) | A | 4.1.0 | 4.2.0 | T1-020092 |
| TP-15 | TP-020038 | 085 | | Update of reference radio conditions (Rel-4) | A | 4.1.0 | 4.2.0 | T1-020098 |
| TP-15 | TP-020038 | 087 | | Update of system reference configurations and default messages (Rel-4) | A | 4.1.0 | 4.2.0 | T1-020100 |
| TP-15 | TP-020038 | 089 | | Corrections to 34108-410 | A | 4.1.0 | 4.2.0 | T1-020102 |
| TP-15 | TP-020038 | 091 | | Introduction of new Reference RABs (Rel-4) | A | 4.1.0 | 4.2.0 | T1-020195 |
| TP-15 | TP-020038 | 094 | | Update of SIBs for TDD (both modes) in TS 34.108 (Rel4) | F | 4.1.0 | 4.2.0 | T1-020107 |
| TP-15 | TP-020038 | 095 | | Clarification of bit rate of Interactive/Background PS RAB function (Rel-4) | A | 4.1.0 | 4.2.0 | T1-020184 |
| | | | | Correction of CR implementation errors in clauses: 6.10.2.2 and 6.10.2.4.1.58.2.1.1 | | 4.2.0 | 4.2.1 | |
| TP-16 | TP-020141 | 108 | | Clause 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps) | F | 4.2.1 | 4.3.0 | T1-020289 |
| TP-16 | TP-020141 | 109 | | Correction to clause 7.3.3.4 RADIO BEARER SETUP message | A | 4.2.1 | 4.3.0 | T1-020291 |
| TP-16 | TP-020141 | 110 | | Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4 | A | 4.2.1 | 4.3.0 | T1-020292 |
| TP-16 | TP-020141 | 111 | | New additional RAB configuration (R1-020669) for REL4 | A | 4.2.1 | 4.3.0 | T1-020293 |
| TP-16 | TP-020141 | 112 | | Correction of Puncturing Limit for RABs for REL4 | A | 4.2.1 | 4.3.0 | T1-020294 |
| TP-16 | TP-020141 | 113 | | Test USIM | A | 4.2.1 | 4.3.0 | T1-020295 |
| TP-16 | TP-020141 | 114 | | Clause 6.1 (SIBs) Rel-4 (3.84 Mcps and 1.28 Mcps TDD) | F | 4.2.1 | 4.3.0 | T1-020296 |
| TP-16 | TP-020141 | 115 | | Clause 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB | A | 4.2.1 | 4.3.0 | T1-020297 |
| TP-16 | TP-020141 | 116 | | Correction to default message in clause 9 for Rel4 | A | 4.2.1 | 4.3.0 | T1-020298 |
| TP-16 | TP-020141 | 117 | | Correction to clause 6.1 for Rel4 | A | 4.2.1 | 4.3.0 | T1-020299 |
| TP-16 | TP-020141 | 118 | | WCDMA1800 additions for Rel4 | A | 4.2.1 | 4.3.0 | T1-020300 |
| TP-16 | TP-020141 | 119 | | Clause 9.1 Default message contents for TDD (3.84 Mcps and 1.28 Mcps) R4 | F | 4.2.1 | 4.3.0 | T1-020301 |
| TP-16 | TP-020141 | 121 | | Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment | A | 4.2.1 | 4.3.0 | T1-020434 |
| TP-17 | TP-020184 | 123 | - | Alignment of reference configurations on S-CCPCH with default system information messages | A | 4.3.0 | 4.4.0 | T1-020503 |
| TP-17 | TP-020184 | 125 | - | Addition of reference compressed mode pattern | A | 4.3.0 | 4.4.0 | T1-020505 |
| TP-17 | TP-020184 | 127 | - | Corrections to default message contents as T1S-020347rev1 | A | 4.3.0 | 4.4.0 | T1-020507 |
| TP-17 | TP-020184 | 129 | - | Additional default message contents for RF Testing | A | 4.3.0 | 4.4.0 | T1-020509 |
| TP-17 | TP-020184 | 131 | - | Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message | A | 4.3.0 | 4.4.0 | T1-020527 |
| TP-17 | TP-020184 | 133 | - | Corrections to clause 6.1 (T1S-020349rev1) | A | 4.3.0 | 4.4.0 | T1-020530 |
| TP-17 | TP-020184 | 135 | - | Introduction of reference configurations on S-CCPCH and PRACH with two interactive PS domain RABs | A | 4.3.0 | 4.4.0 | T1-020539 |
| TP-17 | TP-020184 | 137 | - | Removal of reference radio bearer configurations for unidirectional streaming CS RABa above 64 kbps | A | 4.3.0 | 4.4.0 | T1-020541 |

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| TP-17 | TP-020184 | 140 | - | Some corrections and updates in clause 6.1 for TDD mode | F | 4.3.0 | 4.4.0 | T1-020576 |
| TP-17 | TP-020184 | 142 | - | Inclusion of default message contents for RF in clause 9.2 for TDD mode | F | 4.3.0 | 4.4.0 | T1-020578 |
| TP-18 | TP-020293 | 144 | - | Correction to default messages in 9.1 and 9.2 | A | 4.4.0 | 4.5.0 | T1-020658 |
| TP-18 | TP-020293 | 146 | - | Corrections in the TDD test frequencies according to core specs | A | 4.4.0 | 4.5.0 | T1-020674 |
| TP-18 | TP-020293 | 148 | - | Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | A | 4.4.0 | 4.5.0 | T1-020694 |
| TP-18 | TP-020293 | 150 | - | Correction to content of clause 6.10.2. | A | 4.4.0 | 4.5.0 | T1-020709 |
| TP-18 | TP-020293 | 152 | - | Correction to SIB 11/12 definition | A | 4.4.0 | 4.5.0 | T1-020712 |
| TP-18 | TP-020293 | 154 | - | Reference Measurement Channels | A | 4.4.0 | 4.5.0 | T1-020768 |
| TP-18 | TP-020293 | 156 | - | Transferring system information definition using ASN.1 description to PRD | A | 4.4.0 | 4.5.0 | T1-020778 |
| TP-18 | TP-020293 | 158 | - | Correction to RLC RAB TFCS | A | 4.4.0 | 4.5.0 | T1-020780 |
| TP-18 | TP-020293 | 160 | - | Default Message contents : Correction from CRs approved in RP17meeting | A | 4.4.0 | 4.5.0 | T1-020783 |
| TP-18 | TP-020293 | 162 | - | Corrections to SIB1 to SIB6 | A | 4.4.0 | 4.5.0 | T1-020799 |
| TP-18 | TP-020293 | 164 | - | Correction to RAB configurations as revision of T1S020756 | A | 4.4.0 | 4.5.0 | T1-020801 |
| TP-18 | TP-020293 | 166 | - | Parameter addition for Reference RABs based on LS from RAN2 | A | 4.4.0 | 4.5.0 | T1-020803 |
| TP-18 | TP-020293 | 168 | - | Addition to clause 7.4 for multi call as T1S-020577rev2 (revision to T1S020820) | A | 4.4.0 | 4.5.0 | T1-020818 |
| TP-18 | TP-020293 | 169 | - | RAB Combinations for IMS Services | F | 4.4.0 | 4.5.0 | T1-020819 |
| TP-18 | TP-020293 | 171 | - | Correction to Contents of the Scheduling Block System Information in clause 6.1.3. | F | 4.4.0 | 4.5.0 | T1-020844 |
| TP-19 | TP-030044 | 173 | - | RAB Removal from Rel-4 TS 34.108 as T1S030002rev1 | A | 4.5.0 | 4.6.0 | T1-030037 |
| TP-19 | TP-030044 | 175 | - | Combine all Radio Bearer Setup messages into one table | A | 4.5.0 | 4.6.0 | T1-030040 |
| TP-19 | TP-030044 | 177 | - | Corrections to SB and SIB configurations in clause 6.1 as T1S030046rev1 | A | 4.5.0 | 4.6.0 | T1-030042 |
| TP-19 | TP-030044 | 179 | - | Correction to TS 34.108 Rel-4 ; PAGING TYPE1 message (Packet in PS) | A | 4.5.0 | 4.6.0 | T1-030044 |
| TP-19 | TP-030044 | 181 | - | Clarification of authentication test algorithm and GSM cipher key | A | 4.5.0 | 4.6.0 | T1-030046 |
| TP-19 | TP-030044 | 183 | - | Addition of simulated network environment for inter-RAT test cases | A | 4.5.0 | 4.6.0 | T1-030048 |
| TP-19 | TP-030044 | 185 | - | Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1. | A | 4.5.0 | 4.6.0 | T1-030050 |
| TP-19 | TP-030044 | 187 | - | Addition of default inter-RAT handover messages | A | 4.5.0 | 4.6.0 | T1-030052 |
| TP-19 | TP-030044 | 189 | - | Correction of activation time IEs in default messages | A | 4.5.0 | 4.6.0 | T1-030054 |
| TP-19 | TP-030044 | 191 | - | Correction to default SECURITY MODE COMMAND message | A | 4.5.0 | 4.6.0 | T1-030056 |
| TP-19 | TP-030044 | 193 | - | Addition of option for UL CM only in default reference CM patterns | A | 4.5.0 | 4.6.0 | T1-030058 |
| TP-19 | TP-030044 | 195 | - | Introduction of a reference RB configuration for RMC for BTFD tests (Rel4) | A | 4.5.0 | 4.6.0 | T1-030060 |
| TP-19 | TP-030044 | 197 | - | Update of the RRC connection request messages in 34.108 Rel4 | A | 4.5.0 | 4.6.0 | T1-030063 |
| TP-19 | TP-030043 | 198 | - | Introduction of Conversational PS RABs in Rel-4 TS 34.108 as T1S030003rev1 | F | 4.5.0 | 4.6.0 | T1-030107 |
| TP-19 | TP-030043 | 200 | - | Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel-4 | A | 4.5.0 | 4.6.0 | T1-030208 |
| TP-19 | TP-030043 | 202 | - | Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel-4 | A | 4.5.0 | 4.6.0 | T1-030210 |
| TP-19 | TP-030043 | 204 | - | Modification to Generic Registration Procedures | A | 4.5.0 | 4.6.0 | T1-030222 |
| TP-19 | TP-030043 | 206 | - | Update of default configurations to enable testing of low end UE | A | 4.5.0 | 4.6.0 | T1-030228 |
| TP-20 | TP-030098 | 208 | - | Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB | A | 4.6.0 | 4.7.0 | T1-030437 |
| TP-20 | TP-030098 | 210 | - | Correction to Figure 7.4.1.1 (Rel-4) | A | 4.6.0 | 4.7.0 | T1-030483 |
| TP-20 | TP-030098 | 212 | - | Update of SIB 11 and 12 in clause 6.1.0b in TS 34.108 (TDD) | A | 4.6.0 | 4.7.0 | T1-030507 |
| TP-20 | TP-030098 | 214 | - | Update of Default parameters for 1 to 8 cell environments in TS 34.108 (TDD) | A | 4.6.0 | 4.7.0 | T1-030509 |
| TP-20 | TP-030098 | 216 | - | Correction of default messages according to 25331 CR1823 | A | 4.6.0 | 4.7.0 | T1-030632 |
| TP-20 | TP-030098 | 218 | - | Clause 8.2: Definition of default values for authentication key K on test USIM | A | 4.6.0 | 4.7.0 | T1-030644 |

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| TP-20 | TP-030098 | 219 | - | Update of Reconfiguration messages | A | 4.6.0 | 4.7.0 | T1-030692 |
| TP-20 | TP-030098 | 221 | - | Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030569) | A | 4.6.0 | 4.7.0 | T1-030699 |
| TP-20 | TP-030140 | 226 | - | Correction to default SIB5 (FDD) | A | 4.6.0 | 4.7.0 | T1-030745 |
| TP-21 | TP-030191 | 228 | - | CR to 34.108, Rel-4, Clarification of seg_count in 6.1.0a.3 | A | 4.7.0 | 4.8.0 | T1-030827 |
| TP-21 | TP-030191 | 230 | - | General correction in clause 7.4 for Common generic procedures for AS testing | A | 4.7.0 | 4.8.0 | T1-030976 |
| TP-21 | TP-030191 | 233 | - | Incorrect activation time in CELL_FACH state . | A | 4.7.0 | 4.8.0 | T1-031064 |
| TP-21 | TP-030191 | 235 | - | Incorrect Transport channel Parameters | A | 4.7.0 | 4.8.0 | T1-031066 |
| TP-21 | TP-030191 | 237 | - | Corrections to TS 34.108 common procedures in clause 7.4 of Rel-4 of TS 34.108 | A | 4.7.0 | 4.8.0 | T1-031095 |
| TP-21 | TP-030191 | 239 | - | Removal of RLC AM in the Default Message Content | A | 4.7.0 | 4.8.0 | T1-031151 |
| TP-21 | TP-030191 | 242 | - | CR 34.108 Rel-4: Manual attach in State 7 Registered Idle Mode on CS/PS | A | 4.7.0 | 4.8.0 | T1-031175 |
| TP-21 | TP-030191 | 244 | - | URA Identity in Cell Update Confirm and URA Update Confirm | A | 4.7.0 | 4.8.0 | T1-031179 |
| TP-21 | TP-030191 | 246 | - | CR to 34.108 R4; Correction to specification to reflect a change already approved in TTCN CR T1-030396 | A | 4.7.0 | 4.8.0 | T1-031241 |
| TP-21 | TP-030191 | 248 | - | CR to 34.108 REL-4; Correction to clause 7.3 Test procedures for RF test | A | 4.7.0 | 4.8.0 | T1-031251 |
| TP-21 | TP-030191 | 240 | - | RB configuration for the support of wideband AMR speech telephony services | F | 4.7.0 | 4.8.0 | T1-031154 |
| TP-22 | TP-030279 | 251 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031659 |
| TP-22 | TP-030279 | 252 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031660 |
| TP-22 | TP-030279 | 253 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031661 |
| TP-22 | TP-030279 | 254 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031662 |
| TP-22 | TP-030279 | 255 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031663 |
| TP-22 | TP-030279 | 256 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031664 |
| TP-22 | TP-030279 | 257 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031665 |
| TP-22 | TP-030279 | 258 | 1 | Addition of Default message contents for TDD | F | 4.8.0 | 4.9.0 | T1-031666 |
| TP-22 | TP-030279 | 260 | 2 | CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection | A | 4.8.0 | 4.9.0 | T1-031596 |
| TP-22 | TP-030279 | 262 | | CR 34.108 Rel-4: EFRPLMNACT (RPLMN Last used Access Technology) removed | A | 4.8.0 | 4.9.0 | T1-031381 |
| TP-22 | TP-030279 | 264 | 1 | Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND | A | 4.8.0 | 4.9.0 | T1-031547 |
| TP-22 | TP-030279 | 266 | 1 | Description and corrections of channels for minimum performance levels, TDD mode. | F | 4.8.0 | 4.9.0 | T1-031645 |
| TP-22 | TP-030279 | 268 | 1 | Test frequencies of UMTS800MHz band VI | A | 4.8.0 | 4.9.0 | T1-031555 |
| TP-22 | TP-030279 | 269 | | CR 34.108 Rel-4: Addition of Bearer combination for Interactive/background UL 64 kbps DL 768 kbps for Rel-5 | F | 4.8.0 | 4.9.0 | T1-031441 |
| TP-22 | TP-030279 | 271 | 1 | Update of generic test procedure for TX, RX and Performance Requirement | A | 4.8.0 | 4.9.0 | T1-031610 |
| TP-22 | TP-030279 | 273 | 1 | Introduction of generic test procedure for RRM handover test cases | A | 4.8.0 | 4.9.0 | T1-031608 |
| TP-22 | TP-030279 | 275 | 1 | Correction of CM TGD parameter | A | 4.8.0 | 4.9.0 | T1-031591 |
| TP-22 | TP-030279 | 277 | 1 | Corrections to default message contents of Radio Bearer Release | F | 4.8.0 | 4.9.0 | T1-031594 |
| TP-22 | TP-030279 | 279 | 1 | Modification to default DPCCCH_Power_offset value | A | 4.8.0 | 4.9.0 | T1-031598 |
| TP-22 | TP-030279 | 283 | | Correction of TFCS for radio bearer combination 6.10.2.4.1.51b | A | 4.8.0 | 4.9.0 | T1-031527 |
| TP-23 | TP-040037 | 284 | - | New Radio Bearer Setup (FDD) message for RF (Revision of T1-040258) | F | 4.9.0 | 4.10.0 | T1-040417 |
| TP-23 | TP-040037 | 287 | - | Corrections to default message contents of RRC Connection Setup message -> 2nd change not implemented (not implementable) | A | 4.9.0 | 4.10.0 | T1-040080 |
| TP-23 | TP-040037 | 289 | - | Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments - Rel-4 | A | 4.9.0 | 4.10.0 | T1-040095 |
| TP-23 | TP-040037 | 291 | - | Corrections to TDD HCR RABs | A | 4.9.0 | 4.10.0 | T1-040103 |
| TP-23 | TP-040037 | 296 | - | LCR Corrections to TDD RABs merge of T1-040104 , T1-040201 and T1-040203 | F | 4.9.0 | 4.10.0 | T1-040299 |
| TP-23 | TP-040037 | 298 | - | Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer | A | 4.9.0 | 4.10.0 | T1-040411 |
| TP-23 | TP-040037 | 300 | - | The diverse operation in TDD mode updating according to the core specification | A | 4.9.0 | 4.10.0 | T1-040368 |
| TP-23 | TP-040037 | 302 | - | correction of measurement control default message contents for TDD -> Not implemented (not implementable) | F | 4.9.0 | 4.10.0 | T1-040370 |

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| TP-23 | TP-040037 | 303 | - | correction of RADIO BEARER SETUP default message contents for 1.28 Mcps TDD | F | 4.9.0 | 4.10.0 | T1-040371 |
| TP-23 | TP-040037 | 304 | - | Correction of RADIO BEARER RELEASE default message contents for TDD: AM or UM (1.28 Mcps TDD) | F | 4.9.0 | 4.10.0 | T1-040372 |
| TP-23 | TP-040037 | 305 | - | Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD) -> Not implemented (not implementable) | F | 4.9.0 | 4.10.0 | T1-040373 |
| TP-23 | TP-040037 | 292 | - | New I/B UL:64 DL:768 kbps PS RAB misplaced | F | 4.10.0 | 5.0.0 | T1-040109 |
| TP-23 | TP-040037 | 294 | - | Generic setup procedure and default message contents for HSDPA (as of T1-040069rev1) | F | 4.10.0 | 5.0.0 | T1-040271 |
| TP-23 | TP-040037 | 295 | - | Baseline radio bearer combination for HSDPA support | B | 4.10.0 | 5.0.0 | T1-040273 |
| TP-24 | TP-040112 | 308 | - | Correction to IEs "START" and "ul_CounterSynchronisationInfo". | F | 5.0.0 | 5.1.0 | T1-040512 |
| TP-24 | TP-040112 | 309 | - | Correction to HSDPA reference radio bearer configurations | F | 5.0.0 | 5.1.0 | T1-040522 |
| TP-24 | TP-040112 | 310 | - | Addition of test procedure for HSDPA RF testing | F | 5.0.0 | 5.1.0 | T1-040546 |
| TP-24 | TP-040112 | 315 | - | Corrections to default RRC messages | F | 5.0.0 | 5.1.0 | T1-040593 |
| TP-24 | TP-040112 | 318 | - | Change of default LAC/RAC for inter-RAT test cases | A | 5.0.0 | 5.1.0 | T1-040656 |
| TP-24 | TP-040112 | 319 | - | Contents of Physical channel Reconfiguration message modified to incorporate transition to URA_PCH or CELL_PCH | F | 5.0.0 | 5.1.0 | T1-040673 |
| TP-24 | TP-040112 | 320 | - | Correction of reference test frequencies for UMTS800(band VI) | F | 5.0.0 | 5.1.0 | T1-040701 |
| TP-24 | TP-040112 | 325 | - | Update of generic setup procedures in clauses 7.3.4 and 7.3.5. | A | 5.0.0 | 5.1.0 | T1-040754 |
| TP-24 | TP-040112 | 326 | - | Physical channel parameters for AM RLC 7 bit Length Indicator TestCases (Rel-5) | F | 5.0.0 | 5.1.0 | T1-040902 |
| TP-24 | TP-040112 | 327 | - | Corrections to the default contents of Security Mode Command (Rel-5) | F | 5.0.0 | 5.1.0 | T1-040903 |
| TP-24 | TP-040112 | 330 | - | Corrections to Contents of Scheduling Block 1 (FDD) | F | 5.0.0 | 5.1.0 | T1-040909 |
| TP-24 | TP-040112 | 331 | - | Corrections to Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM | F | 5.0.0 | 5.1.0 | T1-040911 |
| TP-24 | TP-040112 | 332 | - | Corrections to Contents of RRC CONNECTION SETUP message: UM | F | 5.0.0 | 5.1.0 | T1-040913 |
| TP-24 | TP-040112 | 333 | - | RADIO BEARER SETUP message (FDD) for Test Loop Mode2. | F | 5.0.0 | 5.1.0 | T1-040917 |
| TP-24 | TP-040112 | 335 | - | Changes to establish one version of 34.108 covering all releases | A | 5.0.0 | 5.1.0 | T1-040931 |
| TP-24 | TP-040112 | 338 | - | Addition of generic test procedure for AS test cases using the test loop | A | 5.0.0 | 5.1.0 | T1-040934 |
| TP-24 | TP-040112 | 339 | - | Corrections to LCR TDD RABs | F | 5.0.0 | 5.1.0 | T1-040935 |
| TP-25 | TP-040157 | 343 | - | Correction to generic test procedure in clause 7.4.2.6a. | F | 5.1.0 | 5.2.0 | T1-041040 |
| TP-25 | TP-040157 | 344 | - | Addition of default messages for Signalling (FDD) | F | 5.1.0 | 5.2.0 | T1-041044 |
| TP-25 | TP-040157 | 345 | - | Minor change to terminology in SRB tables of clause 6.10 | F | 5.1.0 | 5.2.0 | T1-041140 |
| TP-25 | TP-040157 | 346 | - | Default Message Content for System Information Block type 5 (FDD) and type 6 (FDD) | F | 5.1.0 | 5.2.0 | T1-041154 |
| TP-25 | TP-040157 | 347 | - | Corrections to DCCH Transport channel Parameters for HSDPA RAB | D | 5.1.0 | 5.2.0 | T1-041171 |
| TP-25 | TP-040157 | 348 | - | Corrections to clause 9 | F | 5.1.0 | 5.2.0 | T1-041223 |
| TP-25 | TP-040157 | 349 | - | Corrections to HCR TDD RAB combinations | F | 5.1.0 | 5.2.0 | T1-041235 |
| TP-25 | TP-040157 | 350 | - | Adding missing clause 6.10.2.4.1.62.1 | F | 5.1.0 | 5.2.0 | T1-041252 |
| TP-25 | TP-040157 | 351 | - | Modification of AICH power offset in SysInfo 5 and 6. | F | 5.1.0 | 5.2.0 | T1-041253 |
| TP-25 | TP-040157 | 352 | - | Correction to Default Message Content for Radio Bearer Setup Message. | F | 5.1.0 | 5.2.0 | T1-041259 |
| TP-25 | TP-040157 | 353 | - | Correction to Default Message Content for Radio Bearer Reconfiguration Message for Condition A6 | F | 5.1.0 | 5.2.0 | T1-041266 |
| TP-25 | TP-040157 | 354 | - | CR to 34.108: introduction of default RB SETUP message from cell_FACH state for HSDPA | F | 5.1.0 | 5.2.0 | T1-041298 |
| TP-25 | TP-040157 | 355 | - | Corrections to Contents of RADIO BEARER SETUP message: BTFD RMC | F | 5.1.0 | 5.2.0 | T1-041317 |
| TP-25 | TP-040157 | 340 | - | Resolution of downlink code conflict between OCNS DPCH and S-CCPCH | F | 5.1.0 | 5.2.0 | T1-041327 |
| TP-25 | TP-040157 | 361 | - | Correction to test procedure for test cases using Cell_PCH or URA_PCH state | F | 5.1.0 | 5.2.0 | T1-041346 |
| TP-25 | TP-040157 | 362 | - | Removal of DCCH dummy transmission for RF testing | F | 5.1.0 | 5.2.0 | T1-041350 |
| TP-25 | TP-040157 | 341 | - | Correct title to test procedure for test cases using Cell_PCH or URA_PCH state | F | 5.1.0 | 5.2.0 | T1-041354 |
| TP-25 | TP-040157 | 363 | - | Addition of intra frequency cell to cell environments | F | 5.1.0 | 5.2.0 | T1-041356 |
| TP-25 | TP-040157 | 342 | - | Correct primary scrambling code usage in default message contents in clause 9.2.1 | F | 5.1.0 | 5.2.0 | T1-041365 |
| TP-25 | TP-040157 | 356 | - | HSDPA downlink code allocation | F | 5.1.0 | 5.2.0 | T1-041374 |

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| TP-25 | TP-040157 | 357 | - | Correction to test procedure for test cases using CELL_FACH state | F | 5.1.0 | 5.2.0 | T1-041376 |
| TP-25 | TP-040157 | 358 | - | Varying DPCH Power Offset according to data transmission rate | F | 5.1.0 | 5.2.0 | T1-041416 |
| TP-25 | TP-040157 | 359 | - | Corrections to default message for RADIO BEARER SETUP message in clause 9.2.1 (HSDPA RF) | F | 5.1.0 | 5.2.0 | T1-041418 |
| TP-25 | TP-040157 | 360 | - | Test SIB schedule for two S-CCPCH or two PRACH in 34.108 | F | 5.1.0 | 5.2.0 | T1-041422 |
| TP-25 | TP-040157 | 364 | - | Correction to Default Message Content for Radio Bearer Setup Message re: RM Attribute values | F | 5.1.0 | 5.2.0 | T1-041433 |
| TP-26 | TP-040233 | 365 | - | CR to 34.108 Rel-5: Correction to default value of Qrxlevmin | F | 5.2.0 | 5.3.0 | T1-041532 |
| TP-26 | TP-040233 | 366 | - | CR to 34.108 Rel-5: Corrections of the values in 6.11.5.4 for LCR TDD | F | 5.2.0 | 5.3.0 | T1-041573 |
| TP-26 | TP-040233 | 367 | - | Alignment of Prose to TTCN for SCH power level | F | 5.2.0 | 5.3.0 | T1-041584 |
| TP-26 | TP-040233 | 368 | - | Addition of new HSDPA RAB configurations with UL 64 kbps | F | 5.2.0 | 5.3.0 | T1-041651 |
| TP-26 | TP-040233 | 369 | - | Correction to initial conditions and references in clause 7.3 | F | 5.2.0 | 5.3.0 | T1-041654 |
| TP-26 | TP-040233 | 370 | - | Introduction of reference radio bearer combination for PS streaming and downlink rate up to 128 kbps | F | 5.2.0 | 5.3.0 | T1-041685 |
| TP-26 | TP-040233 | 371 | - | Correction of clause 6.1 (Simulated network environment) | F | 5.2.0 | 5.3.0 | T1-041686 |
| TP-26 | TP-040233 | 372 | - | Correction to generic Call Setup procedure for mobile terminating circuit switched calls | F | 5.2.0 | 5.3.0 | T1-041699 |
| TP-26 | TP-040233 | 373 | - | CR to 34.108 Rel-5; Corrections to the default RADIO BEARER SETUP message for HSDPA | F | 5.2.0 | 5.3.0 | T1-041754 |
| TP-26 | TP-040233 | 374 | - | Physical layer multiplexing configuration in case of AMR and two PS RABs | F | 5.2.0 | 5.3.0 | T1-041801 |
| TP-26 | TP-040233 | 375 | - | Addition of new HSDPA RAB configurations | F | 5.2.0 | 5.3.0 | T1-041802 |
| TP-26 | TP-040233 | 376 | - | Introduction of information for tests for Performance requirements for A-GPS. | B | 5.2.0 | 5.3.0 | T1-041850 |
| TP-26 | TP-040233 | 377 | - | Introduction of UMTS-850 MHz band V | F | 5.2.0 | 5.3.0 | T1-041874 |
| TP-26 | TP-040233 | 378 | - | CR to TS 34.108 Rel-5; Adding a new test condition for RADIO BEARER RELEASE Procedure (Revision of T1-041716). | F | 5.2.0 | 5.3.0 | T1-041933 |
| TP-26 | TP-040233 | 379 | - | Update of Reference Radio Bearer for Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB for DL SF=256 | F | 5.2.0 | 5.3.0 | T1-041942 |
| TP-26 | TP-040233 | 380 | - | CR to 34.108: Correction to the maximum bit rate for HS-PDSCH | F | 5.2.0 | 5.3.0 | T1-041943 |
| TP-26 | TP-040233 | 381 | - | Alignment of Prose to TTCN for RRC Connection Release (Cell DCH state) and RRC Connection Setup Message (Cell FACH State). | F | 5.2.0 | 5.3.0 | T1-041965 |
| TP-27 | TP-050032 | 382 | - | Updates from core specification changes | F | 5.3.0 | 5.4.0 | T1-050095 |
| TP-27 | TP-050032 | 383 | - | Correction to Hand over test procedure in CELL_DCH | F | 5.3.0 | 5.4.0 | T1-050350 |
| TP-27 | TP-050032 | 384 | - | CR to 34.108: Changes to test frequencies for UMTS 850 Band | B | 5.3.0 | 5.4.0 | T1-050380 |
| TP-27 | TP-050032 | 385 | - | Correction to default SIB configurations | F | 5.3.0 | 5.4.0 | T1-050019 |
| TP-27 | TP-050032 | 386 | - | Editorial corrections in HSDPA RAB configurations 6.10.2.4.5.2 and 6.10.2.4.5.4. | D | 5.3.0 | 5.4.0 | T1-050052 |
| TP-27 | TP-050032 | 387 | - | CR to 34.108 Rel-5: Update to the contents of PHYSICAL CHANNEL RECONFIGURATION message for 1.28 Mcps TDD | F | 5.3.0 | 5.4.0 | T1-050064 |
| TP-27 | TP-050032 | 388 | - | CR to 34.108 Rel-5: Update to the contents of TRANSPORT CHANNEL RECONFIGURATION message for 1.28 Mcps TDD | F | 5.3.0 | 5.4.0 | T1-050065 |
| TP-27 | TP-050032 | 389 | - | CR to 34.108 Rel-5: Update to the contents of RRC CONNECTION REQUEST message for TDD | F | 5.3.0 | 5.4.0 | T1-050066 |
| TP-27 | TP-050032 | 390 | - | Correction to the HSDPA RB Identity in Radio Bearer Setup & Radio Bearer Release message contents | F | 5.3.0 | 5.4.0 | T1-050072 |
| TP-27 | TP-050032 | 391 | - | CR to TS 34.108 v5.3.0 - Correction to Default RADIO BEARER RELEASE message (FDD) | F | 5.3.0 | 5.4.0 | T1-050202 |
| TP-27 | TP-050032 | 392 | - | Addition of reference radio bearer configuration for MAC-hs testing | F | 5.3.0 | 5.4.0 | T1-050239 |
| TP-27 | TP-050032 | 393 | - | CR to 34.108 Rel-5: Update to the contents of RRC CONNECTION REQUEST message for TDD | F | 5.3.0 | 5.4.0 | T1-050295 |
| TP-27 | TP-050032 | 394 | - | CR to 34.108 Rel-5: Update to the contents of Default System Information Block Messages for TDD | F | 5.3.0 | 5.4.0 | T1-050296 |
| TP-27 | TP-050032 | 395 | - | CR to 34.108 Rel-5: Add the contents of SIB 5 & 6 for HCR TDD | F | 5.3.0 | 5.4.0 | T1-050297 |
| TP-27 | TP-050032 | 396 | - | Correction to TFCS ordering | F | 5.3.0 | 5.4.0 | T1-050451r1 |
| TP-27 | TP-050032 | 397 | - | Addition of GPS scenario and A-GPS assistance data | F | 5.3.0 | 5.4.0 | T1-050458 |

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| | | | | values for signalling tests to 34.108 | | | | |
| TP-27 | TP-050032 | 398 | - | CR to TS 34.108 Rel-5; Correction to the physical channel parameters (Revision of T1-050176) | F | 5.3.0 | 5.4.0 | T1-050469 |
| RP-28 | RP-050267 | 399 | - | Additional call setup procedures for inter RAT RRM testing | F | 5.4.0 | 5.5.0 | R5-050618 |
| RP-28 | RP-050267 | 400 | - | CR to 34.108: Correction to RADIO BEARER SETUP message for BTFD RMC | F | 5.4.0 | 5.5.0 | R5-050704 |
| RP-28 | RP-050267 | 401 | - | CR to 34.108: Correction to reference radio conditions for GSM | F | 5.4.0 | 5.5.0 | R5-050811 |
| RP-28 | RP-050267 | 402 | - | Addition of RADIO BEARER SETUP Messages for Auxiliary Measurement | F | 5.4.0 | 5.5.0 | R5-050856 |
| RP-28 | RP-050267 | 404 | - | CR 34.108 Addition of specific message content to A-GPS performance test procedures in clause 7.5 | F | 5.4.0 | 5.5.0 | R5-050709 |
| RP-28 | RP-050267 | 405 | - | CR to 34.108 Rel-5: Clarification of generic setup procedures in section 7.3.4 | F | 5.4.0 | 5.5.0 | R5-050663 |
| RP-28 | RP-050267 | 406 | - | Removal of TGPL2 | F | 5.4.0 | 5.5.0 | R5-050513 |
| RP-28 | RP-050267 | 407 | - | Addition of compressed mode pattern for Inter Frequency FDD measurement & Inter RAT measurement GSM | F | 5.4.0 | 5.5.0 | R5-050525 |
| RP-28 | RP-050267 | 408 | - | Correction to MIB, PLMN and Cell Value Tag Value Definition to 34.108 | F | 5.4.0 | 5.5.0 | R5-050608 |
| RP-28 | RP-050267 | 409 | - | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 11 (3.84 Mcps and 1.28 Mcps TDD) in section 6.1.0b | F | 5.4.0 | 5.5.0 | R5-050613 |
| RP-28 | RP-050267 | 410 | - | CR to 34.108 Rel-5: Corrections to the usage of 'Cell info' IE in System Information Block type 11 in section 6.1.4 for TDD cell | F | 5.4.0 | 5.5.0 | R5-050619 |
| RP-28 | RP-050267 | 411 | - | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 5 (1.28 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050620 |
| RP-28 | RP-050267 | 412 | - | Update to clause 8 Test USIM Parameters | F | 5.4.0 | 5.5.0 | R5-050638 |
| RP-28 | RP-050267 | 413 | - | CR to 34.108 Rel-5: Update of SIB3, SIB4, SIB11 and SIB12 for TDD in section 6.1.0b | F | 5.4.0 | 5.5.0 | R5-050662 |
| RP-28 | RP-050267 | 414 | - | CR to 34.108: Correction to TFCS | F | 5.4.0 | 5.5.0 | R5-050677 |
| RP-28 | RP-050267 | 415 | - | CR to TS34.108 Rel-5; Correction to the physical channel parameter | F | 5.4.0 | 5.5.0 | R5-050724 |
| RP-28 | RP-050267 | 416 | - | Correction to default SIB configurations | F | 5.4.0 | 5.5.0 | R5-050947 |
| RP-28 | RP-050267 | 417 | - | CR to 34.108: Missing Rel-5 IE's in the default Radio Bearer Setup message at section 9.1.1. | F | 5.4.0 | 5.5.0 | R5-050600 |
| RP-28 | RP-050267 | 418 | - | CR to TS34.108 Rel-5; Clarification of the reference TFCS for three RB multiplexing option (condition A9) | F | 5.4.0 | 5.5.0 | R5-050913 |
| RP-28 | RP-050268 | 419 | - | Addition of new HSDPA Streaming RAB configurations | F | 5.4.0 | 5.5.0 | R5-050880 |
| RP-28 | RP-050268 | 420 | - | CR to 34.108 Rel-5: Content Correction of RRC CONNECTION SETUP message for LCR TDD in 9.1.2 | F | 5.4.0 | 5.5.0 | R5-050585 |
| RP-28 | RP-050268 | 421 | - | Add Default RADIO BEARER RELEASE message (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050680 |
| RP-28 | RP-050268 | 422 | - | Add Default Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050681 |
| RP-28 | RP-050268 | 423 | - | Add Default Contents of RADIO BEARER RECONFIGURATION message: AM or UM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050682 |
| RP-28 | RP-050268 | 424 | - | Add Default Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050683 |
| RP-28 | RP-050268 | 425 | - | Add Default Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050684 |
| RP-28 | RP-050268 | 426 | - | Add Default Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050685 |
| RP-28 | RP-050268 | 427 | - | Add Default Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050686 |
| RP-28 | RP-050268 | 428 | - | Add Default Contents of MEASUREMENT REPORT message: AM (intra/inter-frequency measurement (3.84 Mcps TDD) | F | 5.4.0 | 5.5.0 | R5-050956 |
| RP-28 | RP-050268 | 430 | - | Correction to RADIO BEARER SETUP message for HSDPA RF testing | F | 5.4.0 | 5.5.0 | R5-050879 |
| RP-28 | RP-050349 | 403 | - | Addition of GPS scenario and assistance data for A-GPS performance tests in 34.108 | B | 5.4.0 | 5.5.0 | R5-050836 |
| RP-28 | RP-050350 | 429 | - | Corrections to section 10.7 and GPS data file for 34.108 | F | 5.4.0 | 5.5.0 | R5-050969 |
| RP-29 | RP-050600 | 431 | - | Feature Clean Up: Removal of DRAC from section 9 of | F | 5.5.0 | 6.0.0 | R5-051312 |

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| | | | | 34.108 | | | | |
| RP-29 | RP-050600 | 432 | - | Feature Clean Up: Removal of SSDT from 34.108 | F | 5.5.0 | 6.0.0 | R5-051356 |
| RP-29 | RP-050600 | 433 | - | Feature Clean Up: Removal of 80 ms TTI for DCH for all cases except when the UE supports SF512 from 34.108 | F | 5.5.0 | 6.0.0 | R5-051379 |
| RP-29 | RP-050600 | 434 | - | Feature Clean Up: Removal of CPCH from section 4 of 34.108 | C | 5.5.0 | 6.0.0 | R5-051543 |
| RP-29 | RP-050600 | 435 | - | Feature Clean Up: Removal of CPCH from section 6 of 34.108 | C | 5.5.0 | 6.0.0 | R5-051544 |
| RP-29 | RP-050600 | 436 | - | Feature Clean Up: Removal of CPCH from section 7 & 8 of 34.108 | C | 5.5.0 | 6.0.0 | R5-051545 |
| RP-29 | RP-050600 | 437 | - | Feature Clean Up: Removal of CPCH from section 9 of 34.108 | C | 5.5.0 | 6.0.0 | R5-051546 |
| RP-29 | RP-050600 | 438 | - | Feature Clean Up: Removal of DSCH (FDD mode) from 34.108 | F | 5.5.0 | 6.0.0 | R5-051548 |
| RP-29 | RP-050600 | 439 | - | Modification to PS setup procedure for inter RAT RRM testing | F | 5.5.0 | 6.0.0 | R5-051161 |
| RP-29 | RP-050600 | 440 | - | CR to 34.108: RRC CONNECTION SETUP exception for HSDPA testing | F | 5.5.0 | 6.0.0 | R5-051430 |
| RP-29 | RP-050600 | 441 | - | CR to 34.108: Correction to the RADIO BEARER SETUP message for HSDPA testing | F | 5.5.0 | 6.0.0 | R5-051112 |
| RP-29 | RP-050512 | 442 | - | Changes to GPS Scenarios and Assistance data in TS 34.108 | F | 5.5.0 | 6.0.0 | R5-051076 |
| RP-29 | RP-050514 | 443 | - | CR to 34.108 Rel-5: Correction of contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD) in 9.2.2 | F | 5.5.0 | 6.0.0 | R5-051212 |
| RP-29 | RP-050514 | 444 | - | CR to 34.108 Rel-5: SIB default schedule in 6.1.0a - Default Master Information Block and Scheduling Block messages | F | 5.5.0 | 6.0.0 | R5-051213 |
| RP-29 | RP-050514 | 445 | - | CR to 34.108 Rel-5: Corrections to the IE"Midamble shift and burst type" of System Information Block type 5/6 (3.84Mcps TDD) in section 6.1.0b | F | 5.5.0 | 6.0.0 | R5-051222 |
| RP-29 | RP-050514 | 446 | - | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 5 (3.84 Mcps TDD) in section 6.1.1 | F | 5.5.0 | 6.0.0 | R5-051344 |
| RP-29 | RP-050514 | 447 | - | CR to 34.108 Rel-5: Corrections to the value of Sintrasearch and Sintersearch in "Cell selection and reselection quality measure" of System Information Block type 3/4 (1.28Mcps TDD and 3.84Mcps TDD) in section 6.1.0b | F | 5.5.0 | 6.0.0 | R5-051536 |
| RP-29 | RP-050600 | 448 | - | Use 'Same as UL' for the Added or Reconfigured DL TrCH information of the added or reconfigured PS RAB | F | 5.5.0 | 6.0.0 | R5-051041 |
| RP-29 | RP-050600 | 449 | - | Correction to the default contents for Radio Bearer Setup message | F | 5.5.0 | 6.0.0 | R5-051044 |
| RP-29 | RP-050600 | 450 | - | Corrections to default parameters of UL:384kbps PS Bearer | F | 5.5.0 | 6.0.0 | R5-051058 |
| RP-29 | RP-050600 | 451 | - | Correction to NB AMR Radio Bearer Configurations | F | 5.5.0 | 6.0.0 | R5-051318 |
| RP-29 | RP-050600 | 452 | - | Correction to default contents of Cell Update and Initial Direct transfer message for Rel-5 | F | 5.5.0 | 6.0.0 | R5-051325 |
| RP-29 | RP-050600 | 453 | - | Correction to DPCCH Power Offset IE in default contents for RRC Connection Setup and Radio Bearer Setup message | F | 5.5.0 | 6.0.0 | R5-051365 |
| RP-29 | RP-050515 | 454 | - | Using Test USIM for VSTK generation of VGCS/VBS ciphering | B | 5.5.0 | 6.0.0 | R5-051553 |
| RP-29 | RP-050600 | 455 | - | Correction to default contents of RADIO BEARER SETUP MESSAGE for the IE "Number of Processes" | F | 5.5.0 | 6.0.0 | R5-051324 |
| RP-29 | RP-050600 | 456 | - | Correction of DL channelisation code in RADIO BEARER SETUP for HSDPA configurations | F | 5.5.0 | 6.0.0 | R5-051345 |
| RP-29 | RP-050513 | 457 | - | Clarification of reference radio bearer configuration for MAC-hs test case 7.1.5.2. | F | 5.5.0 | 6.0.0 | R5-051164 |
| RP-29 | RP-050600 | 458 | - | Replacement of the technical content of 34.108 Rel-5 by a pointer to Rel-6 document | F | 5.5.0 | 6.0.0 | R5-051584 |
| RP-29 | RP-050600 | 459 | - | Introduction of HSDPA + Wideband AMR radio bearer combination | F | 5.5.0 | 6.0.0 | R5-051588 |
| RP-29 | RP-050600 | 460 | - | Feature Clean Up: Removal of DRAC from section 6 of 34.108 | F | 5.5.0 | 6.0.0 | R5-051311 |
| RP-30 | RP-050767 | 461 | - | Correction to 34.108: RF Radio Bearer setup message for HSDPA testing | F | 6.0.0 | 6.1.0 | R5-052320 |
| RP-30 | RP-050720 | 462 | - | Changes, additions and corrections to GPS scenarios and assistance data in TS 34.108 | F | 6.0.0 | 6.1.0 | R5-052017 |
| RP-30 | RP-050716 | 463 | - | Generic test procedure for EDCH RF testing | F | 6.0.0 | 6.1.0 | R5-052345 |
| RP-30 | RP-050769 | 464 | - | Correction of UE test states for RF testing. | F | 6.0.0 | 6.1.0 | R5-052302 |
| RP-30 | RP-050769 | 465 | - | Removal of temporary BLER measurement | F | 6.0.0 | 6.1.0 | R5-051933 |

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|-------------------|---------------|-----|-----|---|-----|-----------------|-------------|---------------|
| | | | | configuration | | | | |
| RP-30 | RP-050780 | 466 | - | Introduction of UMTS1700 for TS34.108 | B | 6.0.0 | 6.1.0 | R5-052329 |
| RP-30 | RP-050767 | 467 | - | Re-definition of reference radio bearer configuration for MAC-hs test case 7.1.5.2 | F | 6.0.0 | 6.1.0 | R5-051857 |
| RP-30 | RP-050767 | 468 | - | Introduction of additional HSDPA radio bearer combination | F | 6.0.0 | 6.1.0 | R5-052159 |
| RP-30 | RP-050717 | 469 | - | CR to 34.108; Correction to default message content in INITIAL DIRECT TRANSFER | F | 6.0.0 | 6.1.0 | R5-052179 |
| RP-30 | RP-050716 | 470 | - | CR to 34.108 Rel-6; Generic Setup Procedure and Default RRC Messages for Enhanced Uplink Tests | F | 6.0.0 | 6.1.0 | R5-052192 |
| RP-30 | RP-050716 | 471 | - | Generic reference bearer radio configurations for E-DCH testing | F | 6.0.0 | 6.1.0 | R5-052167 |
| RP-30 | RP-050716 | 472 | - | Addition of basic radio bearer combinations for E-DCH testing | F | 6.0.0 | 6.1.0 | R5-052144 |
| RP-30 | RP-050718 | 473 | - | CR to TS34.108; Correction to the default system information block type3 for DSAC | F | 6.0.0 | 6.1.0 | R5-052145 |
| RP-30 | RP-050769 | 474 | - | Editorial corrections to TS 34.108 | D | 6.0.0 | 6.1.0 | R5-051840 |
| RP-30 | RP-050769 | 475 | - | Removal of deprecated values from the default contents for RRC Connection Setup (Cell FACH) and RRC Connection Release (Cell DCH) messages. | F | 6.0.0 | 6.1.0 | R5-051848 |
| RP-30 | RP-050769 | 476 | - | Correction to the default RRC message contents for the IE "UARFCN uplink (Nu)" | F | 6.0.0 | 6.1.0 | R5-052155 |
| RP-30 | RP-050769 | 477 | - | Correction of references to IB UL:8 DL:8 kbps transport channel parameters in reference radio bearer configuration 6.10.2.4.1.58a | F | 6.0.0 | 6.1.0 | R5-051858 |
| RP-30 | RP-050769 | 478 | - | Correction of UE states tables for Generic setup procedures. | F | 6.0.0 | 6.1.0 | R5-051942 |
| RP-30 | RP-050769 | 479 | - | Corrections to default message contents of 'HANDOVER FROM UTRAN COMMAND-GSM' message. | F | 6.0.0 | 6.1.0 | R5-051955 |
| RP-30 | RP-050776 | 480 | - | Addition of multi-rate AMR-NB configuration with SRB#5 | F | 6.0.0 | 6.1.0 | R5-052176 |
| RP-30 | RP-050769 | 481 | - | Proposed CR to 34.108 [R6 version, R99 affected] to change slot format for AMR 5.9 mono rate RAB | F | 6.0.0 | 6.1.0 | R5-052055 |
| RP-30 | RP-050769 | 482 | - | Correction to puncturing limit in radio bearer configuration 6.10.2.4.1.38a | F | 6.0.0 | 6.1.0 | R5-052096 |
| RP-30 | RP-050777 | 483 | - | Introduction of third RAB subflow to WB-AMR test configurations | F | 6.0.0 | 6.1.0 | R5-052140 |
| RP-30 | RP-050833 | 484 | - | Correction to RADIO BEARER SETUP message for HSDPA RF testing | F | 6.0.0 | 6.1.0 | - |
| RP-30 | RP-050832 | 485 | - | Correction to test procedure for HSDPA RF testing | F | 6.0.0 | 6.1.0 | - |
| | | | | 2006-01: Editorial conversion to make file compatible with Word 2000. | | 6.1.0 | 6.1.1 | |
| RP-31 | RP-060154 | 486 | - | Corrections to GPS data files for signalling tests. | F | 6.1.1 | 6.2.0 | R5-060522 |
| RP-31 | RP-060163 | 487 | - | Corrections for reference RABs | F | 6.1.1 | 6.2.0 | R5-060273 |
| RP-31 | RP-060144 | 488 | - | Corrections to the RADIO BEARER SETUP message for Enhanced uplink | F | 6.1.1 | 6.2.0 | R5-060335 |
| RP-31 | RP-060150 | 489 | - | Correction to default message content in INITIAL DIRECT TRANSFER | F | 6.1.0 | 6.2.0 | R5-060396 |
| RP-31 | RP-060154 | 490 | - | Corrections to default message contents for signaling | F | 6.1.1 | 6.2.0 | R5-060274 |
| RP-31 | RP-060163 | 491 | - | Update of RB configuration 6.10.2.4.1.4b to increase test coverage for multi-mode AMR configurations | F | 6.1.1 | 6.2.0 | R5-060122 |
| RP-31 | RP-060144 | 492 | - | Correction of UE RRC states table for common procedures (section 7.4.1) | F | 6.1.1 | 6.2.0 | R5-060268 |
| RP-31 | RP-060154 | 493 | - | Correction to DPCCH power offset value in RADIO BEARER SETUP messages | F | 6.1.1 | 6.2.0 | R5-060459 |
| RP-31 | RP-060153 | 494 | - | Introduction of Band VII and Band VIII to TS34.108 Chapter 5 and introduction of new UARFCN scheme | F | 6.1.1 | 6.2.0 | R5-060440 |
| RP-31 | RP-060154 | 495 | - | Clarification of RB Test Mode State for RF testing | F | 6.1.1 | 6.2.0 | R5-060446 |
| RP-31 | RP-060144 | 496 | - | Common message content for E-DCH RF testing | F | 6.1.1 | 6.2.0 | R5-060439 |
| RP-31 | RP-060144 | 497 | - | Generic test procedure for E-DCH RF testing | F | 6.1.1 | 6.2.0 | R5-060438 |
| RP-31 | RP-060166 | 498 | - | Correction to GPS Assistance Data for Performance tests | F | 6.1.1 | 6.2.0 | R5-060007 |
| RP-31 | RP-060154 | 499 | - | Corrections to default message contents for RF | F | 6.1.1 | 6.2.0 | R5-060257 |
| RP-31 | RP-060163 | 500 | - | Adding of RB Configuration 6.11.4b to clause 6.11 to increase test coverage for Interactive or background PS RAB UL 0kbps/DL 0kbps. | F | 6.1.1 | 6.2.0 | R5-060571 |
| RP-32 | RP-060331 | 501 | - | Addition of release information to A-GPS MEASUREMENT CONTROL message IEs | F | 6.2.0 | 6.3.0 | R5-061454 |
| RP-32 | RP-060331 | 502 | - | Change to altitude of simulated UE position | F | 6.2.0 | 6.3.0 | R5-061410 |
| RP-32 | RP-060331 | 503 | - | Clarification of A-GPS simulated satellites | F | 6.2.0 | 6.3.0 | R5-061223 |
| RP-32 | RP-060337 | 504 | - | Clarification to loopback on HSDPA call set up procedure | F | 6.2.0 | 6.3.0 | R5-061046 |

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| RP-32 | RP-060337 | 505 | - | Removal of alternative procedure for HSDPA RF testing | F | 6.2.0 | 6.3.0 | R5-061212 |
| RP-32 | RP-060337 | 506 | - | Removal of alternative RB Setup message for HSDPA RF testing | F | 6.2.0 | 6.3.0 | R5-061213 |
| RP-32 | RP-060338 | 507 | - | CR for 34.108: Addition of RADIO BEARER SETUP default message contents for LCR TDD HSDPA RF testing | F | 6.2.0 | 6.3.0 | R5-061438 |
| RP-32 | RP-060332 | 508 | - | Correction to RB setup message for E-DCH | F | 6.2.0 | 6.3.0 | R5-061443 |
| RP-32 | RP-060334 | 509 | - | CR to 34.108: Addition of band IV to test frequencies for UMTS 1.7/2.1 GHz | F | 6.2.0 | 6.3.0 | R5-061188 |
| RP-32 | RP-060 336 | 510 | - | Addition of radio bearer setup and release for HCR HSDPA testing to 34.108 | F | 6.2.0 | 6.3.0 | R5-061148 |
| RP-32 | RP-060337 | 511 | - | HS-SCCH and HS-PDSCH power levels in signaling tests | F | 6.2.0 | 6.3.0 | R5-061207 |
| RP-32 | RP-060338 | 512 | - | CR for 34.108: Addition of the combinations on DPCH and HS-PDSCH for LCR TDD | F | 6.2.0 | 6.3.0 | R5-061310 |
| RP-32 | RP-060338 | 513 | - | CR for 34.108: Correction of RADIO BEARER SETUP default message contents for LCR TDD HSDPA | F | 6.2.0 | 6.3.0 | R5-061053 |
| RP-32 | RP-060338 | 514 | - | CR for 34.108: Correction of RADIO BEARER RELEASE default message contents for LCR TDD HSDPA | F | 6.2.0 | 6.3.0 | R5-061054 |
| RP-32 | RP-060332 | 515 | - | Corrections to the default RADIO BEARER SETUP message for Enhanced uplink | F | 6.2.0 | 6.3.0 | R5-061314 |
| RP-32 | RP-060332 | 516 | - | Generalize E-DCH radio bearer names and correction to section numbering for 6.10.2.4.6.3.2.1.1.2. | F | 6.2.0 | 6.3.0 | R5-061315 |
| RP-32 | RP-060332 | 517 | - | Addition of conversational radio bearer combinations for E-DCH/HS-DSCH testing | F | 6.2.0 | 6.3.0 | R5-061266 |
| RP-32 | RP-060332 | 518 | - | E-HICH/E-RGCH and E-AGCH codes used in Radio Bearer Setup for signaling | F | 6.2.0 | 6.3.0 | R5-061386 |
| RP-32 | RP-060332 | 519 | - | Introduction of additional WB-AMR RAB combination for E-DCH/HS-DSCH testing | F | 6.2.0 | 6.3.0 | R5-061339 |
| RP-32 | RP-060336 | 520 | - | Addition of combinations on DPCH and HS-DSCH for HCR to 34.108 | F | 6.2.0 | 6.3.0 | R5-061149 |
| RP-32 | RP-060322 | 521 | - | Corrections to the values for IE based on calculated ASN.1 value to 34.108 clause 9 | F | 6.2.0 | 6.3.0 | R5-061369 |
| RP-32 | RP-060328 | 522 | - | CR to 34.108 Rel-6: Supplement to the UTRAN mobility information procedure in TDD | F | 6.2.0 | 6.3.0 | R5-061392 |
| RP-32 | RP-060322 | 523 | - | Correction to specific message contents for UE Capability Information confirm message | F | 6.2.0 | 6.3.0 | R5-061139 |
| RP-32 | RP-060322 | 524 | - | Corrections to the values for IE based on calculated ASN.1 value to 34.108 clause 6 | F | 6.2.0 | 6.3.0 | R5-061281 |
| RP-32 | RP-060322 | 525 | - | Addition of a new section for downlink physical channels code allocation for signalling in FDD | F | 6.2.0 | 6.3.0 | R5-061385 |
| RP-33 | RP-060560 | 526 | - | Editorial changes in 34.108 | F | 6.3.0 | 6.4.0 | R5-062092 |
| RP-33 | RP-060549 | 527 | - | CR to 34.108: Correction of reference test frequencies for UMTS800 (Band VI) | F | 6.3.0 | 6.4.0 | R5-062440 |
| RP-33 | RP-060549 | 528 | - | Correction to SIB11 in 6.1 | F | 6.3.0 | 6.4.0 | R5-062427 |
| RP-33 | RP-060549 | 529 | - | Correction to SECURITY MODE COMMAND message in 9.2.1 | F | 6.3.0 | 6.4.0 | R5-062403 |
| RP-33 | RP-060562 | 530 | - | Correction to RB Setup default message for E-DCH RF testing | F | 6.3.0 | 6.4.0 | R5-062208 |
| RP-33 | RP-060568 | 531 | - | CR to 34.108: Correction the contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD) | F | 6.3.0 | 6.4.0 | R5-062511 |
| RP-33 | RP-060566 | 532 | - | Addition of HSDPA cases to radio bearer setup and radio bearer release in section 9.1.2 | F | 6.3.0 | 6.4.0 | R5-062253 |
| RP-33 | RP-060567 | 533 | - | Corrections to the default PHYSICAL CHANNEL RECONFIGURATION message | F | 6.3.0 | 6.4.0 | R5-062291 |
| RP-33 | RP-060567 | 534 | - | Corrections to specification of HARQ RV sequence and retransmissions for 34.123-1 test cases configuring HSDPA | F | 6.3.0 | 6.4.0 | R5-062544 |
| RP-33 | RP-060562 | 535 | - | Corrections to the default RADIO BEARER SETUP message | F | 6.3.0 | 6.4.0 | R5-062320 |
| RP-33 | RP-060562 | 536 | - | New Test RABS for MAC-E/Es test cases | F | 6.3.0 | 6.4.0 | R5-062328 |
| RP-33 | RP-060562 | 537 | - | Correction to radio bearer configuration 6.10.2.4.6 and 6.10.2.4.8 | F | 6.3.0 | 6.4.0 | R5-062199 |
| RP-33 | RP-060562 | 538 | - | Correction to 34.108 Section 9.1 : Corrections to Radio Bearer Setup for A12 | F | 6.3.0 | 6.4.0 | R5-062348 |
| RP-33 | RP-060549 | 539 | - | Clarification to section 6.10 and 6.11 | F | 6.3.0 | 6.4.0 | R5-062194 |
| RP-33 | RP-060549 | 540 | - | Correction to 34.108 Section 6.1 : Inclusion of System Information Block Type 5bis | F | 6.3.0 | 6.4.0 | R5-062398 |
| RP-33 | RP-060549 | 541 | - | Corrections to maximum data rate for combinations on PRACH (FDD) | F | 6.3.0 | 6.4.0 | R5-062350 |
| RP-34 | RP-060739 | 542 | - | Assistance Data change for A-GPS Minimum | F | 6.4.0 | 6.5.0 | R5-063400 |

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| | | | | Performance Test | | | | |
| RP-34 | RP-060731 | 543 | - | Correction to SECURITY MODE COMMAND message in 9.2.2 | F | 6.4.0 | 6.5.0 | R5-063296 |
| RP-34 | RP-060735 | 544 | - | Addition of PAGING TYPE 2 message in 9.2 | F | 6.4.0 | 6.5.0 | R5-063401 |
| RP-34 | RP-060731 | 545 | - | Correction to RADIO BEARER SETUP message in 9.2 | F | 6.4.0 | 6.5.0 | R5-063402 |
| RP-34 | RP-060743 | 546 | - | Correction to the set of Reference E-TFCIs in RB Setup default message (RF) | F | 6.4.0 | 6.5.0 | R5-063233 |
| RP-34 | RP-060731 | 547 | - | Correction the Default System Information Block type6 Messages in 6.1.0b | F | 6.4.0 | 6.5.0 | R5-063294 |
| RP-34 | RP-060743 | 548 | - | CR to 34.108, correction of RADIO BEARER SETUP for EDCH | F | 6.4.0 | 6.5.0 | R5-063545 |
| RP-34 | RP-060743 | 549 | - | Correction to the set of Reference E-TFCIs in RB Setup default message (SIG) | F | 6.4.0 | 6.5.0 | R5-063240 |
| RP-34 | RP-060750 | 550 | - | Introduction of radio bearers for MTCH | F | 6.4.0 | 6.5.0 | R5-063543 |
| RP-34 | RP-060749 | 551 | - | Introduction of FDD interband testing in TS 34.108 | F | 6.4.0 | 6.5.0 | R5-063255 |
| RP-34 | RP-060735 | 552 | - | Correction to Radio Bearer Setup message –Mac-hs reset indicator | F | 6.4.0 | 6.5.0 | R5-063339 |
| RP-34 | RP-060731 | 553 | - | CR to 34.108, Add MCC value for Band VI test | F | 6.4.0 | 6.5.0 | R5-063340 |
| RP-34 | RP-060731 | 554 | - | CR to 34.108, Modify MCC value in IMSI of test USIM for Band VI test | F | 6.4.0 | 6.5.0 | R5-063341 |
| RP-34 | RP-060731 | 555 | - | Correction to default content for System Information Block Type 7 | F | 6.4.0 | 6.5.0 | R5-063079 |
| RP-34 | RP-060731 | 556 | - | Clarification of FDD test channels used for signaling test cases | F | 6.4.0 | 6.5.0 | R5-063260 |
| RP-35 | RP-070111 | 557 | | 34.108 v6.6.0 pointer to Release 7 version | F | 6.5.0 | 7.0.0 | R5-070338 |
| RP-35 | RP-070105 | 558 | | Correction of IE "DL UM RLC LI size" in RF default messages for HSDPA | F | 6.5.0 | 7.0.0 | R5-070548 |
| RP-35 | RP-070096 | 559 | | Signalled Reference E-TFCIs for E-DCH RF tests | F | 6.5.0 | 7.0.0 | R5-070113 |
| RP-35 | RP-070096 | 560 | | Correction to RB setup message used for E-DCH tests | F | 6.5.0 | 7.0.0 | R5-070221 |
| RP-35 | RP-070096 | 561 | | Correction of IE "DL UM RLC LI size" in RF default messages for E-DCH | F | 6.5.0 | 7.0.0 | R5-070549 |
| RP-35 | RP-070090 | 562 | | Generic test procedure for MBMS RF test case | F | 6.5.0 | 7.0.0 | R5-070553 |
| RP-35 | RP-070094 | 563 | | Introduction of FDD Mode Test frequencies for Operating Band X (Extended 1.7/2.1 GHz) | F | 6.5.0 | 7.0.0 | R5-070160 |
| RP-35 | RP-070094 | 564 | | Introduction of FDD Band X (Extended 1.7/2.1 GHz) to Contents of System Information Block type 5bis | F | 6.5.0 | 7.0.0 | R5-070161 |
| RP-35 | RP-070104 | 565 | | Correction to contents of System Information Block type 5 (1.28 Mcps TDD) | F | 6.5.0 | 7.0.0 | R5-070109 |
| RP-35 | RP-070104 | 566 | | Remove DCH information from RRC Connection Setup message to Cell_FACH state | F | 6.5.0 | 7.0.0 | R5-070353 |
| RP-35 | RP-070096 | 567 | | Corrections to 34.108 Radio Bearer Setup Message: AM or UM | F | 6.5.0 | 7.0.0 | R5-070038 |
| RP-35 | RP-070096 | 568 | | Introduction of radio bearers for Stand-alone SRBs for DCCH on E-DCH and HS-DSCH | F | 6.5.0 | 7.0.0 | R5-070356 |
| RP-35 | RP-070096 | 569 | | Introduction of RRC Connection setup message for Stand-alone SRBs for DCCH on E-DCH and HS-DSCH | F | 6.5.0 | 7.0.0 | R5-070357 |
| RP-35 | RP-070086 | 570 | | MBMS test - MCCH configurations | F | 6.5.0 | 7.0.0 | R5-070429 |
| RP-35 | RP-070086 | 571 | | Generic setup procedures and default values for MBMS signalling testing | F | 6.5.0 | 7.0.0 | R5-070422 |
| RP-35 | RP-070086 | 572 | | Introduction of signalling radio bearer for MCCH | F | 6.5.0 | 7.0.0 | R5-070147 |
| RP-36 | RP-070360 | 573 | | Definition of MCCH default message content | F | 7.0.0 | 7.1.0 | R5-071469 |
| RP-36 | RP-070354 | 574 | | Addition of Additional Dynamic Transport Format Information for CCCH and Additional RACH TFCS for CCCH in SIB5 | F | 7.0.0 | 7.1.0 | R5-071536 |
| RP-36 | RP-070354 | 575 | | Remove MCC codes 440/441 for Band VI test | F | 7.0.0 | 7.1.0 | R5-071036 |
| RP-36 | RP-070350 | 576 | | Modify the Physical channel parameters for HS-DSCH for 1.28 Mcps TDD. | F | 7.0.0 | 7.1.0 | R5-071119 |
| RP-36 | RP-070357 | 577 | | Modification to RB setup message used for E-DCH test cases | F | 7.0.0 | 7.1.0 | R5-071126 |
| RP-36 | RP-070357 | 578 | | Correction to RB setup message used for E-DCH RF test cases | F | 7.0.0 | 7.1.0 | R5-071127 |
| RP-36 | RP-070364 | 579 | | Addition of 7.68 Mcps TDD TX diversity modes to 34.108 (section 6.7) | F | 7.0.0 | 7.1.0 | R5-071270 |
| RP-36 | RP-070364 | 580 | | Addition of default message contents for RF tests (7.68Mcps TDD) | F | 7.0.0 | 7.1.0 | R5-071277 |
| RP-36 | RP-070364 | 581 | | Addition of default message contents for signalling tests (7.68Mcps TDD) | F | 7.0.0 | 7.1.0 | R5-071278 |
| RP-36 | RP-070364 | 582 | | Addition of default system information for 7,68 Mcps TDD to 34.108 | F | 7.0.0 | 7.1.0 | R5-071279 |
| RP-36 | RP-070364 | 583 | | Addition of default system information for 7,68Mcps TDD to 34.108 for SCCPCH configuration with Stand-alone SRB | F | 7.0.0 | 7.1.0 | R5-071280 |

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| RP-36 | RP-070364 | 584 | | Addition of Reference Radio Bearer configurations used in Radio Bearer testing for 7.68 Mcps TDD | F | 7.0.0 | 7.1.0 | R5-071284 |
| RP-36 | RP-070364 | 585 | | Addition Standard TDD reference test frequencies (7.68 Mcps option) to 34.108 | F | 7.0.0 | 7.1.0 | R5-071287 |
| RP-36 | RP-070363 | 586 | | Introduction of the generic test procedure for MBMS RF/RRM test cases | F | 7.0.0 | 7.1.0 | R5-071378 |
| RP-36 | RP-070350 | 587 | | Adding Radio Bearer Configurations for LCR TDD HSDPA | F | 7.0.0 | 7.1.0 | R5-071423 |
| RP-36 | RP-070344 | 588 | | Clarification of two default values for IE Scrambling code change | F | 7.0.0 | 7.1.0 | R5-071435 |
| RP-36 | RP-070356 | 589 | | Editorial corrections in the reference list | F | 7.0.0 | 7.1.0 | R5-071443 |
| RP-36 | RP-070344 | 590 | | Correction to the list of RAB combinations on DPCH and HS-PDSCH | F | 7.0.0 | 7.1.0 | R5-071448 |
| RP-36 | RP-070360 | 591 | | Introduce SIB scheduling and contents for MBMS test | F | 7.0.0 | 7.1.0 | R5-071458 |
| RP-36 | RP-070360 | 592 | | Update to generic setup procedures and default values for MBMS signalling testing | F | 7.0.0 | 7.1.0 | R5-071459 |
| RP-36 | RP-070360 | 593 | | Clarification of MBMS test case default behaviour | F | 7.0.0 | 7.1.0 | R5-071460 |
| RP-36 | RP-070360 | 594 | | Downlink physical channels code allocation for MBMS test | F | 7.0.0 | 7.1.0 | R5-071487 |
| RP-36 | RP-070354 | 595 | | Changes to inclusion of Start Value in Cell Update Message from Rel-6 | F | 7.0.0 | 7.1.0 | R5-071490 |
| RP-36 | RP-070354 | 596 | | Addition of Additional Transport Format and TFCS for CCCH on RACH | F | 7.0.0 | 7.1.0 | R5-071529 |
| RP-37 | RP-070600 | 597 | - | UE performance requirements for high speed train | F | 7.1.0 | 7.2.0 | R5-072280 |
| RP-37 | RP-070596 | 598 | - | CR to 34.108: New Requirements for Fast L1 Synchronization | F | 7.1.0 | 7.2.0 | R5-072368 |
| RP-37 | RP-070609 | 600 | - | Addition of MTCH and MCCH to combinations on SCCPCH for 3.84 Mcps TDD | F | 7.1.0 | 7.2.0 | R5-072296 |
| RP-37 | RP-070609 | 601 | - | Addition of MTCH and MCCH to combinations on SCCPCH for 7.68 Mcps TDD | F | 7.1.0 | 7.2.0 | R5-072297 |
| RP-37 | RP-070604 | 602 | - | Corrections of Test Procedures for MBMS Testing (IGMP and MLD) | F | 7.1.0 | 7.2.0 | R5-072066 |
| RP-37 | RP-070604 | 603 | - | Addition of RB combinations for PTP MBMS Testing | F | 7.1.0 | 7.2.0 | R5-072067 |
| RP-37 | RP-070604 | 604 | - | Correction to default MBMS MCCH messages in 34.108 | F | 7.1.0 | 7.2.0 | R5-072166 |
| RP-37 | RP-070596 | 605 | - | Correction to SIB5 contents for additional RACH TFCS for CCCH | F | 7.1.0 | 7.2.0 | R5-072186 |
| RP-37 | RP-070596 | 606 | - | Correction to default RB combinations on PRACH for additional RACH TFCS for CCCH | F | 7.1.0 | 7.2.0 | R5-072187 |
| RP-37 | RP-070608 | 607 | - | SIB5 configuration for MBMS RF/RRM generic procedure | F | 7.1.0 | 7.2.0 | R5-072379 |
| RP-37 | RP-070604 | 608 | - | Default message content for MBMS NEIGHBOURING CELL P-T-M RB INFORMATION | F | 7.1.0 | 7.2.0 | R5-072468 |
| RP-37 | RP-070604 | 609 | - | Addition of PTP RB for MBMS | F | 7.1.0 | 7.2.0 | R5-072521 |
| RP-37 | RP-070604 | 610 | - | Addition of new SIB5 configuration to have MCCH mapped on to an S-CCPCH also used for non-MBMS purposes | F | 7.1.0 | 7.2.0 | R5-072469 |
| RP-37 | RP-070593 | 611 | - | Addition of RB combination for RoHCTesting | F | 7.1.0 | 7.2.0 | R5-072520 |
| RP-37 | RP-070611 | 612 | - | Introduce SIB scheduling and contents for LCR TDD MBMS test | F | 7.1.0 | 7.2.0 | R5-072534 |
| RP-37 | RP-070611 | 613 | - | Introduction of radio bearers of MTCH for LCR TDD MBMS test | F | 7.1.0 | 7.2.0 | R5-072535 |
| RP-37 | RP-070604 | 614 | - | Addition of MBMS PTP RB Setup message contents | F | 7.1.0 | 7.2.0 | R5-072496 |
| RP-37 | RP-070601 | 615 | - | Introduction of F-DPCH Support Indicator | F | 7.1.0 | 7.2.0 | R5-072568 |
| RP-37 | RP-070612 | 616 | - | Correction of HS-PDSCH for 64QAM Enhancement | F | 7.1.0 | 7.2.0 | R5-072559 |
| RP-37 | RP-070613 | 617 | - | Correction of HS-PDSCH for MIMO Enhancement | F | 7.1.0 | 7.2.0 | R5-072560 |
| RP-37 | RP-070614 | 618 | - | Correction of Maximum Data Rate for E-DPDCH | F | 7.1.0 | 7.2.0 | R5-072561 |
| RP-37 | RP-070609 | 620 | - | Addition of message contents required for 3.84Mcps and 7.68Mcps TDD to the default messages contents for signalling | F | 7.1.0 | 7.2.0 | R5-072295 |
| RP-37 | RP-070600 | 619 | - | Production of 34.108 Rel-7 pointer version to point to Rel-8 of the spec | F | 7.1.0 | 7.2.0 | R5-072590 |
| RP-37 | RP-070599 | 599 | - | Introduction of FDD Mode Test frequencies for Operating Band XI (UMTS1500) | F | 7.1.0 | 8.0.0 | R5-072273 |
| RP-38 | RP-070858 | 621 | | Addition of exceptional messages for RF test procedure | F | 8.0.0 | 8.1.0 | R5-073202 |
| RP-38 | RP-070869 | 622 | | Correction to DL RLC PDU size in 9.2 for RB setup and RRC connection setup | F | 8.0.0 | 8.1.0 | R5-073203 |
| RP-38 | RP-070858 | 623 | | Correction to DL RLC PDU size in 9.1 for RB setup and RRC connection setup | F | 8.0.0 | 8.1.0 | R5-073204 |
| RP-38 | RP-070863 | 624 | | Addition of new IE to RRC connection setup message | F | 8.0.0 | 8.1.0 | R5-073390 |
| RP-38 | RP-070858 | 625 | | Addition of test frequencies for low and high ranges for serving cell | F | 8.0.0 | 8.1.0 | R5-073311 |

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| RP-38 | RP-070877 | 626 | | Update of generic setup procedure for MBMS RF/RRM testing | F | 8.0.0 | 8.1.0 | R5-073300 |
| RP-38 | RP-070877 | 627 | | Addition of specific message content for MBMS RF/RRM Testing | F | 8.0.0 | 8.1.0 | R5-073342 |
| RP-38 | RP-070886 | 628 | | Addition of combinations on HS-PDSCH and E-PUCH for 3.84Mcps TDD | F | 8.0.0 | 8.1.0 | R5-073227 |
| RP-38 | RP-070879 | 629 | | Addition of message contents required for 1.28Mcps TDD to the default messages contents for signalling | F | 8.0.0 | 8.1.0 | R5-073089 |
| RP-38 | RP-070887 | 630 | | Update of the default RADIO BEARER SETUP message to support enhanced data rates | F | 8.0.0 | 8.1.0 | R5-073436 |
| RP-38 | RP-070887 | 631 | | Update of radio bearer configuration for Enhanced Layer 2 | F | 8.0.0 | 8.1.0 | R5-073402 |
| RP-38 | RP-070887 | 632 | | Introduction of new RB configuration to be used by MAC-ehs test cases | F | 8.0.0 | 8.1.0 | R5-073403 |
| RP-38 | RP-070871 | 633 | | Correction conditions table for RADIO BEARER SETUP for MBMS PtP | F | 8.0.0 | 8.1.0 | R5-073449 |
| RP-38 | RP-070871 | 634 | | Update of generic setup procedure for MBMS protocol testing | F | 8.0.0 | 8.1.0 | R5-073446 |
| RP-38 | RP-070871 | 635 | | Correction to the SIB5 when MCCH mapped on to an S-CCPCH also used for non-MBMS purposes | F | 8.0.0 | 8.1.0 | R5-073465 |
| RP-38 | RP-070871 | 636 | | Corrections to MBMS specific message content and addition of MBMS ACCESS INFORMATION | F | 8.0.0 | 8.1.0 | R5-073454 |
| RP-38 | RP-070858 | 637 | | Addition of general SS requirements for UL and DL RF signal levels | F | 8.0.0 | 8.1.0 | R5-073269 |
| RP-38 | RP-070858 | 638 | | Correction to SIB1 | F | 8.0.0 | 8.1.0 | R5-073418 |
| RP-38 | RP-070858 | 639 | | Editorial moving the word "Default1" or "Default2" in the correct column | F | 8.0.0 | 8.1.0 | R5-073425 |
| RP-38 | RP-070858 | 640 | | CR wrongly indicated to be to 34.108 and hence not implemented | - | - | - | R5-073425 |
| RP-39 | RP-080095 | 0641 | | Correction to RRC Connection setup and RB setup messages for 64kbps(Channel2) | F | 8.1.0 | 8.2.0 | R5-080247 |
| RP-39 | RP-080103 | 0642 | | Addition of default message contents for MBMS RF/RRM testing | F | 8.1.0 | 8.2.0 | R5-080149 |
| RP-39 | RP-080108 | 0643 | | CR to 34.108: Introduction of the UE E-DCH 16-QAM feature | F | 8.1.0 | 8.2.0 | R5-080118 |
| RP-39 | RP-080106 | 0644 | | Addition of combinations on E-DCH to 6.11 of 34.108 for 3.84Mcps TDD | F | 8.1.0 | 8.2.0 | R5-080346 |
| RP-39 | RP-080106 | 0645 | | Update of radio bearer setup in default message contents to include E-DCH conditions for 3.84Mcps and 7.68Mcps TDD | F | 8.1.0 | 8.2.0 | R5-080350 |
| RP-39 | RP-080115 | 0646 | | CR for 34.108:Correction of CELL UPDATE CONFIRM default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080099 |
| RP-39 | RP-080115 | 0647 | | CR for 34.108:Correction of PHYSICAL CHANNEL RECONFIGURATION default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080100 |
| RP-39 | RP-080115 | 0648 | | CR for 34.108:Correction of RADIO BEARER RECONFIGURATION default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080101 |
| RP-39 | RP-080115 | 0649 | | CR for 34.108:Correction of RADIO BEARER RELEASE default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080102 |
| RP-39 | RP-080115 | 0650 | | CR for 34.108:Correction of RADIO BEARER SETUP default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080103 |
| RP-39 | RP-080115 | 0651 | | CR for 34.108:Correction of TRANSPORT CHANNEL RECONFIGURATION default message contents for LCR TDD EDCH | F | 8.1.0 | 8.2.0 | R5-080104 |
| RP-39 | RP-080115 | 0652 | | Correction to the contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option) | F | 8.1.0 | 8.2.0 | R5-080190 |
| RP-39 | RP-080108 | 0653 | | Introduction of Default Radio Bearer Setup message contents for UL 16QAM | F | 8.1.0 | 8.2.0 | R5-080480 |
| RP-39 | RP-080107 | 0654 | | Addition of HARQ transmission parameters for 64QAM | F | 8.1.0 | 8.2.0 | R5-080482 |
| RP-39 | RP-080109 | 0655 | | Update of the default RADIO BEARER SETUP message to support enhanced data rates | F | 8.1.0 | 8.2.0 | R5-080531 |
| RP-39 | RP-080109 | 0656 | | Addition of enhanced L2 configurations for DL SRBs on HS | F | 8.1.0 | 8.2.0 | R5-080287 |
| RP-39 | RP-080109 | 0657 | | Correction of physical layer parameters for radio bearer configuration 6.10.2.4.5 and HSPA | F | 8.1.0 | 8.2.0 | R5-080289 |
| RP-39 | RP-080109 | 0658 | | Addition of enhanced L2 configurations to conversational UM PS radio bearer 6.10.2.4.6.6 | F | 8.1.0 | 8.2.0 | R5-080484 |
| RP-39 | RP-080111 | 0659 | | Addition of RB setup message contents for CPC | F | 8.1.0 | 8.2.0 | R5-080512 |
| RP-39 | RP-080105 | 0660 | | Addition of HARQ transmission parameters for MIMO | F | 8.1.0 | 8.2.0 | R5-080519 |
| RP-39 | RP-080095 | 0661 | | Correction to RB identity in RRC Connection Setup | F | 8.1.0 | 8.2.0 | R5-080036 |

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| RP-39 | RP-080095 | 0662 | | Addition of new RB Combination for MBMS Testing | F | 8.1.0 | 8.2.0 | R5-080600 |
| RP-39 | RP-080095 | 0663 | | Corrections to default content of MBMS GENERAL INFORMATION message | F | 8.1.0 | 8.2.0 | R5-080160 |
| RP-39 | RP-080095 | 0664 | | Correction to MBMS selected service test procedure for MBMS Modification Request message | F | 8.1.0 | 8.2.0 | R5-080521 |
| RP-39 | RP-080109 | 0665 | | Update of the default RRC CONNECTION SETUP message to support enhanced data rates | F | 8.1.0 | 8.2.0 | R5-080523r1 |
| RP-40 | RP-080372 | 0666 | | CR to 34.108: Correction to Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) for 16QAM | F | 8.2.0 | 8.3.0 | R5-081140 |
| RP-40 | RP-080370 | 0667 | | CR to 34.108: Introduction of Operating Bands XII XIII and XIV (UMTS700 MHz) | F | 8.2.0 | 8.3.0 | R5-081150 |
| RP-40 | RP-080364 | 0668 | | Correction to RRC Connection setup messages for 64kbps(Channel2) | F | 8.2.0 | 8.3.0 | R5-081435 |
| RP-40 | RP-080364 | 0669 | | Additional IEs for 7.8.4 of 34.121-1 | F | 8.2.0 | 8.3.0 | R5-081436 |
| RP-40 | RP-080364 | 0670 | | Additional test procedure for HSDPA with F-DPCH RF Performance Requirement for 7.8.5 of 34.121-1 | F | 8.2.0 | 8.3.0 | R5-081279 |
| RP-40 | RP-080364 | 0671 | | Additional RB setup message for 7.8.5 of 34.121-1 | F | 8.2.0 | 8.3.0 | R5-081280 |
| RP-40 | RP-080371 | 0672 | | Update of radio bearer setup in default message contents to include E-DCH conditions for 3.84Mcps TDD | F | 8.2.0 | 8.3.0 | R5-081336 |
| RP-40 | RP-080377 | 0673 | | CR for 34.108: Baseline radio bearer combination for LCR TDD EDCH | F | 8.2.0 | 8.3.0 | R5-081116 |
| RP-40 | RP-080379 | 0674 | | Addition of MBSFN RABs and Signalling RB for 3.84 Mcps TDD | F | 8.2.0 | 8.3.0 | R5-081034 |
| RP-40 | RP-080379 | 0675 | | Addition of MBSFN RABs and Signalling RB for 7.68 Mcps TDD | F | 8.2.0 | 8.3.0 | R5-081035 |
| RP-40 | RP-080379 | 0676 | | Initial additions to common test environment definition for HCR and VHCR TDD MBSFN | F | 8.2.0 | 8.3.0 | R5-081039 |
| RP-40 | RP-080363 | 0677 | | Clarification of TDD test channels used for signaling test cases | F | 8.2.0 | 8.3.0 | R5-081354 |
| RP-40 | RP-080373 | 0678 | | Addition of new Test Bearer for MAC CPC testing | F | 8.2.0 | 8.3.0 | R5-081219 |
| RP-40 | RP-080373 | 0679 | | CPC: Corrections to Radio Bearer Setup message contents for conditions A20 A21 | F | 8.2.0 | 8.3.0 | R5-081388 |
| RP-40 | RP-080365 | 0680 | | Update of radio bearer configurations for HSPA | F | 8.2.0 | 8.3.0 | R5-081194 |
| RP-40 | RP-080364 | 0681 | | Correction to the Contents of RADIO BEARER SETUP message: AM or UM for MBMS PtP Radio Bearer Setup | F | 8.2.0 | 8.3.0 | R5-081205 |
| RP-40 | RP-080365 | 0682 | | Addition of new Test Bearer for MAC-ehs testing | F | 8.2.0 | 8.3.0 | R5-081218 |
| RP-40 | RP-080365 | 0683 | | Addition of new Test Bearer for Improved L2 testing | F | 8.2.0 | 8.3.0 | R5-081220 |
| RP-40 | RP-080365 | 0684 | | Corrections to the default RADIO BEARER SETUP message | F | 8.2.0 | 8.3.0 | R5-081393 |
| RP-40 | RP-080364 | 0685 | | Correction to RB Combination for MBMS Testing | F | 8.2.0 | 8.3.0 | R5-081298 |
| RP-40 | RP-080364 | 0686 | | Removal of MBMS dispersion indicator in default message content | F | 8.2.0 | 8.3.0 | R5-081508 |
| RP-41 | RP-080561 | 0687 | | Addition of combinations on HS-DSCH and E-PUCH to typical radio parameter sets for 7.68Mcps TDD | F | 8.3.0 | 8.4.0 | R5-083075 |
| RP-41 | RP-080568 | 0688 | | Simulated network environment description for MBSFN tests | F | 8.3.0 | 8.4.0 | R5-083105 |
| RP-41 | RP-080568 | 0689 | | Add default SIB configuration for 3.84 amd 7.68 Mcps TDD MBSFN | F | 8.3.0 | 8.4.0 | R5-083106 |
| RP-41 | RP-080568 | 0690 | | Add default MCCH configurations for 3.84 Mcps and 7.68 Mcps TDD MBSFN | F | 8.3.0 | 8.4.0 | R5-083107 |
| RP-41 | RP-080568 | 0691 | | Default MBMS RRC message contents for 3.84 and 7.68 Mcps TDD MBSFN | F | 8.3.0 | 8.4.0 | R5-083108 |
| RP-41 | RP-080568 | 0692 | | Radio Bearer configurations for 7bit and 15bit UM RLC TCs for HCR and VHCR TDD MBSFN | F | 8.3.0 | 8.4.0 | R5-083109 |
| RP-41 | RP-080557 | 0693 | | Corrections to the default RADIO BEARER SETUP message for condition A22 | F | 8.3.0 | 8.4.0 | R5-083179 |
| RP-41 | RP-080570 | 0694 | | Correction of HS-PDSCH for 64QAM Enhancement | F | 8.3.0 | 8.4.0 | R5-083314 |
| RP-41 | RP-080554 | 0695 | | Correction to Contents of default RADIO BEARER SETUP messages | F | 8.3.0 | 8.4.0 | R5-083336 |
| RP-41 | RP-080557 | 0696 | | Corrections to 34.108: Radio access bearer establishment procedure for packet switched sessions (procedure P26) | F | 8.3.0 | 8.4.0 | R5-083338 |
| RP-41 | RP-080557 | 0697 | | Corrections to Radio Bearer Setup message for Rel-7 | F | 8.3.0 | 8.4.0 | R5-083340 |
| RP-41 | RP-080557 | 0698 | | Corrections to RRC Connection Setup message for Rel-7 | F | 8.3.0 | 8.4.0 | R5-083341 |
| RP-41 | RP-080557 | 0699 | | New Radio Bearer Combination for testing flexible size SRB in 8.2.2.57 | F | 8.3.0 | 8.4.0 | R5-083342 |
| RP-41 | RP-080567 | 0700 | | New Radio Bearer Combinations for CS over HSPA | F | 8.3.0 | 8.4.0 | R5-083360 |
| RP-41 | RP-080568 | 0701 | | Add setup test procedures and Access Control Class settings for MBSFN MBMS testing | F | 8.3.0 | 8.4.0 | R5-083441 |

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| RP-41 | RP-080555 | 0702 | | Correction to uplink beta factors in default messages | F | 8.3.0 | 8.4.0 | R5-083566 |
| RP-41 | RP-080567 | 0703 | | New Radio Bearer Setup message contents for CS-HSPA RABS | F | 8.3.0 | 8.4.0 | R5-083591 |
| RP-41 | RP-080570 | 0704 | | Correction of HS-PDSCH physical layer categories for LCR TDD 64QAM Enhancement | F | 8.3.0 | 8.4.0 | R5-083645 |
| RP-41 | RP-080561 | 0705 | | Addition of radio bearer set-up default messages for RF testing for E-DCH and HSDPA operation for 3.84Mcps TDD and 7.68Mcps TDD | F | 8.3.0 | 8.4.0 | R5-083825 |
| RP-42 | RP-080954 | 0706 | | Correction to E-RGCH Info in Radio Bearer Setup | F | 8.4.0 | 8.5.0 | R5-085037 |
| RP-42 | RP-080952 | 0707 | | Correction to System Information Block type 11 | F | 8.4.0 | 8.5.0 | R5-085039 |
| RP-42 | RP-080964 | 0708 | | Addition of Elementary Files (EFs) needed in Network Selection Enhancements tests | F | 8.4.0 | 8.5.0 | R5-085064 |
| RP-42 | RP-080968 | 0709 | | Addition of MBSFN RABs and Signalling RB for 1.28 Mcps TDD | F | 8.4.0 | 8.5.0 | R5-085130 |
| RP-42 | RP-080968 | 0710 | | Simulated network environment description for MBSFN tests | F | 8.4.0 | 8.5.0 | R5-085131 |
| RP-42 | RP-080968 | 0711 | | Default MBMS RRC message contents for LCR TDD MBSFN | F | 8.4.0 | 8.5.0 | R5-085132 |
| RP-42 | RP-080954 | 0712 | | Correction to A9 condition in RB set-up message | F | 8.4.0 | 8.5.0 | R5-085230 |
| RP-42 | RP-080967 | 0713 | | Introduction of radio bearer parameters for Improved L2 UL | F | 8.4.0 | 8.5.0 | R5-085422 |
| RP-42 | RP-080956 | 0714 | | Addition of Rel-7 IEs to default messages specified in 34.108 | F | 8.4.0 | 8.5.0 | R5-085424 |
| RP-42 | RP-080956 | 0715 | | Correction of UL DPPCH slot format for default Radio Bearer Setup message for DTX/DRX | F | 8.4.0 | 8.5.0 | R5-085425 |
| RP-42 | RP-080954 | 0716 | | Addition of RF E-DCH test procedure for E-DPDCH with 2SF2+2SF4 | F | 8.4.0 | 8.5.0 | R5-085726 |
| RP-42 | RP-080954 | 0717 | | Correction to Contents of RADIO BEARER SETUP message: AM or UM (HSDPA) | F | 8.4.0 | 8.5.0 | R5-085727 |
| RP-43 | RP-090203 | 0718 | - | Correction to E-DCH Transmission Time Interval | F | 8.5.0 | 8.6.0 | R5-090167 |
| RP-43 | RP-090203 | 0719 | - | Correction to Radio Bearer Setup message (A17 & A18) | F | 8.5.0 | 8.6.0 | R5-090168 |
| RP-43 | RP-090216 | 0720 | - | Addition 1.28 Mcps TDD contents in 6.11.5 | F | 8.5.0 | 8.6.0 | R5-090312 |
| RP-43 | RP-090203 | 0721 | - | Correction to the default RADIO BEARER SETUP message for condition A22 | F | 8.5.0 | 8.6.0 | R5-090313 |
| RP-43 | RP-090203 | 0722 | - | Correction 1.28 Mcps TDD default RADIO BEARER SETUP message in 9.1.2 | F | 8.5.0 | 8.6.0 | R5-090314 |
| RP-43 | RP-090216 | 0723 | - | Addition 1.28 Mcps TDD contents in 9.1.3 | F | 8.5.0 | 8.6.0 | R5-090316 |
| RP-43 | RP-090217 | 0724 | - | Supported Channels for MBSFN FDD | F | 8.5.0 | 8.6.0 | R5-090368 |
| RP-43 | RP-090217 | 0725 | - | Simulated network environment for MBSFN FDD | F | 8.5.0 | 8.6.0 | R5-090369 |
| RP-43 | RP-090217 | 0726 | - | Generic test procedure for MBSFN FDD | F | 8.5.0 | 8.6.0 | R5-090371 |
| RP-43 | RP-090217 | 0727 | - | MBSFN FDD configurations for signalling test | F | 8.5.0 | 8.6.0 | R5-090373 |
| RP-43 | RP-090215 | 0728 | - | Introduction of radio bearer parameters for testing Improved L2 UL | F | 8.5.0 | 8.6.0 | R5-090445 |
| RP-43 | RP-090212 | 0729 | - | RRC Connection Setup Default Message for HS-DSCH Reception in CELL_FACH state | F | 8.5.0 | 8.6.0 | R5-090452 |
| RP-43 | RP-090212 | 0730 | - | New Default SIB5/SIB5bis for Enhanced CELL FACH | F | 8.5.0 | 8.6.0 | R5-090456 |
| RP-43 | RP-090212 | 0731 | - | Addition of Radio Bearer Setup Condition for Enhanced CELL_FACH | F | 8.5.0 | 8.6.0 | R5-090459 |
| RP-43 | RP-090203 | 0732 | - | Addition of Rel-7 IE's to RRConnectionRequest and correction to Rel-7 IEs for Cell update and URA update under default messages specified in 34.108 | F | 8.5.0 | 8.6.0 | R5-090465 |
| RP-43 | RP-090203 | 0733 | - | Addition of Code Tree Allocation Table for 64QAM HSDPA Test Cases | F | 8.5.0 | 8.6.0 | R5-090466 |
| RP-43 | RP-090203 | 0734 | - | Correction to Radio Bearer Setup for 64QAM test cases | F | 8.5.0 | 8.6.0 | R5-090467 |
| RP-43 | RP-090215 | 0735 | - | Additions to the default RRC messages for improved L2 in uplink | F | 8.5.0 | 8.6.0 | R5-090559 |
| RP-43 | RP-090218 | 0736 | - | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 19 and 20 | F | 8.5.0 | 8.6.0 | R5-090562 |

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| RP-43 | RP-090203 | 0737 | - | Correction of radio bearer parameters for UE HS-DSCH Physical Layer category 15 and 18 | F | 8.5.0 | 8.6.0 | R5-090563 |
| RP-43 | RP-090203 | 0738 | - | Correction to the RAB Setup for CS over HSPA (A23 set of parameters) in 34.108 | F | 8.5.0 | 8.6.0 | R5-090564 |
| RP-43 | RP-090215 | 0739 | 2 | Update of Radio Bearer Configurations for flexible RLC | F | 8.5.0 | 8.6.0 | R5-090727 |
| RP-43 | RP-090212 | 0740 | - | Introduction of radio bearer parameters for testing HS-DSCH Reception in CELL_FACH | F | 8.5.0 | 8.6.0 | R5-090728 |
| RP-44 | RP-090443 | 0741 | - | Addition of MBSFN IDLE and MCCH configurations for LCR TDD MBSFN in 34.108 | F | 8.6.0 | 8.7.0 | R5-092119 |
| RP-44 | RP-090443 | 0742 | - | Addition of default SIB for LCR TDD MBSFN in 34.108 | F | 8.6.0 | 8.7.0 | R5-092120 |
| RP-44 | RP-090445 | 0743 | - | "6.4.1.1 - Correction to SIB5 Default Message for HS-DSCH Reception in CELL_FACH" | F | 8.6.0 | 8.7.0 | R5-092222 |
| RP-44 | RP-090443 | 0744 | - | New Radio Bearer Configurations for 1.28TDD 64QAM | F | 8.6.0 | 8.7.0 | R5-092318 |
| RP-44 | RP-090433 | 0745 | - | Correction to Radio Bearer Setup message contents (A17a) | F | 8.6.0 | 8.7.0 | R5-092537 |
| RP-44 | RP-090445 | 0746 | - | Correction to RRC Connection Setup Default Message for HS-DSCH Reception in CELL_FACH state | F | 8.6.0 | 8.7.0 | R5-092544 |
| RP-44 | RP-090445 | 0747 | - | Correction to Radio Bearer Setup Condition for Enhanced CELL_FACH state | F | 8.6.0 | 8.7.0 | R5-092545 |
| RP-44 | RP-090433 | 0748 | - | Update to Channelisation code allocation for 64QAM | F | 8.6.0 | 8.7.0 | R5-092728 |
| RP-44 | RP-090598 | 0749 | - | Addition of Test frequencies in FDD Mode Operating Band XIX (Extended UMTS 800) | F | 8.6.0 | 8.7.0 | R5-092792 |
| RP-44 | RP-090795 | 0750 | - | Introduction of two new SIBs configurations in UTRA cell for interRAT LTE test | F | 8.7.0 | 8.8.0 | R5-094071 |
| RP-44 | RP-090811 | 0751 | - | Update of the default RADIO BEARER SETUP message to support enhanced data rates for LCR TDD | F | 8.7.0 | 8.8.0 | R5-094269 |
| RP-44 | RP-090803 | 0752 | - | Correction RAB definition for LCR TDD MBSFN in 34108 | F | 8.7.0 | 8.8.0 | R5-094270 |
| RP-44 | RP-090809 | 0753 | - | Correction to RAB configuration for Enhanced CELL_FACH | F | 8.7.0 | 8.8.0 | R5-094443 |
| RP-44 | RP-090809 | 0754 | - | Correction to RRC Connection setup for HS-DSCH reception in CELL_FACH | F | 8.7.0 | 8.8.0 | R5-094445 |
| RP-44 | RP-090809 | 0755 | - | Correction to SIB5 for Enhanced CELL_FACH | F | 8.7.0 | 8.8.0 | R5-094446 |
| RP-44 | RP-090809 | 0756 | - | Correction to Radio Bearer Setup for HS-DSCH reception in CELL_FACH | F | 8.7.0 | 8.8.0 | R5-094447 |
| RP-44 | RP-090799 | 0757 | - | Correction to Radio Bearer Configuration for Improved L2 UL Testing | F | 8.7.0 | 8.8.0 | R5-094455 |
| RP-44 | RP-090808 | 0758 | - | Inclusion of common E-DCH info in SIB5(bis) to be used by new Enh-UL for CELL_FACH test cases | F | 8.7.0 | 8.8.0 | R5-094459 |
| RP-44 | RP-090794 | 0759 | - | Update to Channelisation code allocation for E-DCH and 64QAM | F | 8.7.0 | 8.8.0 | R5-094464 |
| RP-44 | RP-090794 | 0760 | - | Addition of Radio Bearer Setup Conditions for establishing radio bearers mapped onto E-DCH/HS-DSCH (MAC-ehs) for 64QAM and non 64QAM configurations | F | 8.7.0 | 8.8.0 | R5-094467 |
| RP-44 | RP-090803 | 0761 | - | Correction the number in section 11.2 in 34108 | F | 8.7.0 | 8.8.0 | R5-094511 |
| RP-44 | RP-090795 | 0762 | - | Correction to RB setup message for CS over HSPA | F | 8.7.0 | 8.8.0 | R5-094625 |
| RP-44 | RP-090794 | 0763 | - | Correction to Default Message contents of Radio Bearer Setup for A22 | F | 8.7.0 | 8.8.0 | R5-094646 |
| RP-44 | RP-090791 | 0764 | - | Update of 9.2 Default RF Messages | F | 8.7.0 | 8.8.0 | R5-094744 |
| RP-44 | RP-090812 | 0765 | - | MBSFN RABs and Signalling RB for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094856 |
| RP-44 | RP-090812 | 0766 | - | Default MBMS RRC message contents for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094857 |
| RP-44 | RP-090812 | 0767 | - | Default MCCH configurations for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094858 |
| RP-44 | RP-090812 | 0768 | - | Radio Bearer configurations for 7bit and 15bit UM RLC TCs for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094859 |
| RP-44 | RP-090812 | 0769 | - | Reference radio condition for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094860 |
| RP-44 | RP-090812 | 0770 | - | Reference test condition for MBSFN 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094861 |
| RP-44 | RP-090812 | 0771 | - | Default SIB configuration for 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094862 |

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|-------------------|---------------|------|-----|--|-----|-----------------|-------------|---------------|
| RP-44 | RP-090812 | 0772 | - | Supported Channels for MBSFN 3.84 Mcps TDD IMB | F | 8.7.0 | 8.8.0 | R5-094863 |
| RP-44 | RP-090809 | 0773 | - | New RF procedure for HSDPA in CELL_FACH | F | 8.7.0 | 8.8.0 | R5-094984 |
| RP-44 | RP-090793 | 0774 | - | CR to 34.108: Addition of RADIO BEARER SETUP condition for test case 5.2B in 34.121-1 | F | 8.7.0 | 8.8.0 | R5-094994 |
| RP-44 | RP-090794 | 0775 | - | addition of the Standard TDD reference test frequencies | F | 8.7.0 | 8.8.0 | R5-095013 |
| RP-44 | RP-090794 | 0776 | - | correction of RADIO BEARER SETUP message default content | F | 8.7.0 | 8.8.0 | R5-095014 |
| RP-44 | RP-090791 | 0777 | - | Addition of section 6.1.4.1a: Default Cell parameters Two PLMN in UTRAN test scenario with cells on PLMN1 belonging to two different frequencies | F | 8.7.0 | 8.8.0 | R5-095026 |
| RP-44 | RP-090805 | 0778 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier Adjacent Channels for HSDPA | F | 8.7.0 | 8.8.0 | R5-095062 |
| RP-44 | RP-090794 | 0779 | - | Update of the default RADIO BEARER SETUP message (FDD) for an additional RB combination | F | 8.7.0 | 8.8.0 | R5-095063 |
| RP-44 | RP-090800 | 0780 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of 64QAM+MIMO for HSDPA | F | 8.7.0 | 8.8.0 | R5-095128 |
| RP-44 | RP-090799 | 0781 | - | Addition of Default Radio Bearer Conditions for Improved L2 UL MAC test cases | F | 8.7.0 | 8.8.0 | R5-095130 |
| RP-45 | RP-091124 | 0782 | - | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 21, 22, 23 and 24 (Dual Cell) | F | 8.8.0 | 8.9.0 | R5-095605 |
| RP-45 | RP-091118 | 0783 | - | Corrections to the default RRC CONNECTION SETUP message | F | 8.8.0 | 8.9.0 | R5-095646 |
| RP-45 | RP-091130 | 0784 | - | Default SIB configuration for 3.84 Mcps TDD IMB | F | 8.8.0 | 8.9.0 | R5-095698 |
| RP-45 | RP-091130 | 0785 | - | MBSFN service availability for 3.84 Mcps TDD IMB | F | 8.8.0 | 8.9.0 | R5-095699 |
| RP-45 | RP-091130 | 0786 | - | Reference radio condition for 3.84 Mcps TDD IMB | F | 8.8.0 | 8.9.0 | R5-095700 |
| RP-45 | RP-091135 | 0787 | - | Introduction of MIMO in Typical radio parameter sets for 1.28Mcps TDD | F | 8.8.0 | 8.9.0 | R5-095882 |
| RP-45 | RP-091123 | 0788 | - | Update 5.5.1.4 for MBSFN TC Reference test conditions | F | 8.8.0 | 8.9.0 | R5-095945 |
| RP-45 | RP-091118 | 0789 | - | Inclusion of common HS-DSCH and E-DCH info in SIB5 to be used by new enhanced CELL_FACH test cases for LCR TDD | F | 8.8.0 | 8.9.0 | R5-095957 |
| RP-45 | RP-091129 | 0790 | - | Addition Reference Radio Bearer configurations used in MAC-ehs and MAC-i/is testing for LCR TDD | F | 8.8.0 | 8.9.0 | R5-095958 |
| RP-45 | RP-091115 | 0791 | - | Editorial correction in clause 8.1.2.1 | F | 8.8.0 | 8.9.0 | R5-096049 |
| RP-45 | RP-091117 | 0792 | - | Correction of RADIO BEARER SETUP for 5.2B | F | 8.8.0 | 8.9.0 | R5-096052 |
| RP-45 | RP-091119 | 0794 | - | Correction to condition A27 for Improved L2 UL Testing and generic table formatting | F | 8.8.0 | 8.9.0 | R5-096150 |
| RP-45 | RP-091119 | 0795 | - | Correction to Default Radio Bearer Conditions for Improved L2 UL RLC AM test cases | F | 8.8.0 | 8.9.0 | R5-096153 |
| RP-45 | RP-091128 | 0796 | 1 | Correction to Default message contents | F | 8.8.0 | 8.9.0 | R5-096171 |
| RP-45 | RP-091119 | 0797 | - | Align USIM content to the latest REI-8 USIM files | F | 8.8.0 | 8.9.0 | R5-096180 |
| RP-45 | RP-091124 | 0798 | - | Update of the default RADIO BEARER SETUP message for RF testing of Dual Carrier Adjacent Channels for HSDPA | F | 8.8.0 | 8.9.0 | R5-096280 |
| RP-45 | RP-091124 | 0799 | - | New RF procedure for Dual Cell HSDPA | F | 8.8.0 | 8.9.0 | R5-096308 |
| RP-45 | RP-091119 | 0800 | - | Correction to radio bearer configuration 6.10.2.4.6.6 for improvedL2 UL | F | 8.8.0 | 8.9.0 | R5-096706 |
| RP-47 | RP-100141 | 0801 | - | Corrections to Radio Bearer Setup A26 | F | 8.9.0 | 8.10.0 | R5-100054 |
| RP-47 | RP-100140 | 0802 | - | Corrections to Radio Bearer Setup message for A17b/c Configurations | F | 8.9.0 | 8.10.0 | R5-100241 |
| RP-47 | RP-100154 | 0803 | - | CR to 34.108: Update of test frequencies for extended UMTS1500 operating bands | F | 8.9.0 | 8.10.0 | R5-100253 |
| RP-47 | RP-100137 | 0804 | - | Addition of new combinations for LCR TDD RAB testing in 34.108 | F | 8.9.0 | 8.10.0 | R5-100336 |
| RP-47 | RP-100151 | 0805 | - | Update of the default RADIO BEARER SETUP message to support enhanced CELL_FACH for LCR TDD | F | 8.9.0 | 8.10.0 | R5-100337 |

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|-------------------|---------------|------|-----|---|-----|-----------------|-------------|---------------|
| RP-47 | RP-100157 | 0806 | - | Introduction of Default Message Contents for CPC of 1.28Mcps TDD | F | 8.9.0 | 8.10.0 | R5-100388 |
| RP-47 | RP-100158 | 0807 | - | Introduction of Default Message Contents for MIMO of 1.28Mcps TDD | F | 8.9.0 | 8.10.0 | R5-100389 |
| RP-47 | RP-100141 | 0808 | - | Addition of reference HARQ Transmission Parameters for the combination of MIMO and 64QAM | F | 8.9.0 | 8.10.0 | R5-100525 |
| RP-47 | RP-100149 | 0809 | - | CR to 34.108: Correction to RADIO BEARER SETUP condition for sub-test 5 in 5.2B test case | F | 8.9.0 | 8.10.0 | R5-100563 |
| RP-47 | RP-100150 | 0810 | - | Correction to SIB5 for Enhanced CELL_FACH in UL and DL | F | 8.9.0 | 8.10.0 | R5-100632 |
| RP-47 | RP-100150 | 0811 | - | Addition of RRC Connection Setup Default Condition for Enhanced CELL_FACH in UL cases | F | 8.9.0 | 8.10.0 | R5-100634 |
| RP-47 | RP-100150 | 0812 | - | Addition of Default Radio Bearer Conditions for Enhanced UL in CELL_FACH | F | 8.9.0 | 8.10.0 | R5-100635 |
| RP-47 | RP-100140 | 0814 | - | Correction to default RRC Connection setup message for HS-DSCH in CELL_FACH | F | 8.9.0 | 8.10.0 | R5-100681 |
| RP-47 | RP-100142 | 0819 | - | Update of 9.2 Default RF Messages for TC7.8.5 | F | 8.9.0 | 8.10.0 | R5-100726 |
| RP-47 | RP-100149 | 0815 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier Adjacent Channels for HSDPA for radio bearer testing | F | 8.9.0 | 8.10.0 | R5-100769 |
| RP-47 | RP-100149 | 0816 | - | Introduction of test frequencies to DC-HSDPA tests | F | 8.9.0 | 8.10.0 | R5-100875 |
| RP-47 | RP-100140 | 0817 | - | Correction to Enhanced CELL_FACH RAB configuration | F | 8.9.0 | 8.10.0 | R5-101107 |
| RP-47 | RP-100149 | 0818 | - | Update of physical channel params on HS-PDSCH for DC-HSDPA | F | 8.9.0 | 8.10.0 | R5-101181 |
| RP-47 | - | - | - | Moved to v9.0.0 with no change | - | 8.10.0 | 9.0.0 | - |
| RP-48 | RP-100508 | 0820 | - | Correction to Radio Bearer Setup message for A17b & A17c Configurations | F | 9.0.0 | 9.1.0 | R5-103030 |
| RP-48 | RP-100523 | 0821 | - | CR to 34.108: Introduction of test frequencies of band XXI to DC-HSDPA tests | F | 9.0.0 | 9.1.0 | R5-103100 |
| RP-48 | RP-100511 | 0822 | - | Default SIB5 contents for UEs supporting Enhanced UL/DL in CELL_FACH state | F | 9.0.0 | 9.1.0 | R5-103152 |
| RP-48 | RP-100522 | 0823 | - | Addition conditions in message RADIO BEARER SETUP and RRC CONNECTION SETUP for LCR TDD | F | 9.0.0 | 9.1.0 | R5-103182 |
| RP-48 | RP-100508 | 0824 | - | Specify the MAC-c header for the reference RB combinations on PRACH and HS-DSCH in 6.10.2.4.7 | F | 9.0.0 | 9.1.0 | R5-103286 |
| RP-48 | RP-100525 | 0825 | - | Adding eCall services support in Elementary File USIM Service Table - EFUST | F | 9.0.0 | 9.1.0 | R5-103399 |
| RP-48 | RP-100511 | 0826 | - | Aligning UTRAN USIM parameters for multi-RAT devices | F | 9.0.0 | 9.1.0 | R5-103659 |
| RP-48 | RP-100518 | 0827 | - | Addition of HNB related information | F | 9.0.0 | 9.1.0 | R5-103668 |
| RP-48 | RP-100508 | 0828 | - | Amendment to some radio bearer configurations for 7.68 Mcps TDD | F | 9.0.0 | 9.1.0 | R5-103685 |
| RP-48 | RP-100517 | 0829 | - | Correction to HS-SCCH configuration in RB Setup (DC-HSDPA) | F | 9.0.0 | 9.1.0 | R5-103725 |
| RP-48 | RP-100521 | 0833 | - | Support for UMTS/LTE 800MHz for Europe in 34.108 | F | 9.0.0 | 9.1.0 | R5-103766 |
| RP-48 | RP-100505 | 0830 | - | Addition band d and band e for LCR TDD in 34.108 | F | 9.0.0 | 9.1.0 | R5-103812 |
| RP-48 | RP-100519 | 0831 | - | Correction to default Enhanced UL in CELL_FACH RB condition A29 | F | 9.0.0 | 9.1.0 | R5-103862 |
| RP-49 | RP-100811 | 0834 | - | Correction to Radio Bearer Setup message for MiMo configurations | F | 9.1.0 | 9.2.0 | R5-104320 |
| RP-49 | RP-100811 | 0835 | - | Updating code allocation for MiMo configurations | F | 9.1.0 | 9.2.0 | R5-104321 |
| RP-49 | RP-100830 | 0836 | - | Addition of new combinations on HS-PDSCH and E-PUCH for LCR TDD improved L2 | F | 9.1.0 | 9.2.0 | R5-104359 |
| RP-49 | RP-100833 | 0837 | - | Addition of default message contents for WLAN interworking testing | F | 9.1.0 | 9.2.0 | R5-104397 |
| RP-49 | RP-100985 | 0838 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier HSDPA | F | 9.1.0 | 9.2.0 | R5-104470 |
| RP-49 | RP-100811 | 0839 | - | Correction to RB Setup message condition used for testcase 14.7.6b | F | 9.1.0 | 9.2.0 | R5-104570 |
| RP-49 | RP-100808 | 0840 | - | Correcting default USIM contents | F | 9.1.0 | 9.2.0 | R5-104679 |
| RP-49 | RP-100985 | 0841 | - | Correction to the explanation of A25 set of RBsetup | F | 9.1.0 | 9.2.0 | R5-104680 |

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|-------------------|---------------|------|-----|--|-----|-----------------|-------------|---------------|
| RP-49 | RP-100811 | 0842 | - | Change the default value of Qrxlevmin for LCR TDD | F | 9.1.0 | 9.2.0 | R5-105018 |
| RP-49 | RP-100808 | 0843 | - | Clarification to the FDD inter-band network environment | F | 9.1.0 | 9.2.0 | R5-105031 |
| RP-50 | RP-101137 | 0844 | - | Corrections to SIB5 contents for Enhanced Cell FACH DL testcases | F | 9.2.0 | 9.3.0 | R5-106218 |
| RP-50 | RP-101137 | 0845 | - | Corrections to RRC Connection setup contents for Enhanced Cell FACH DL testcases | F | 9.2.0 | 9.3.0 | R5-106219 |
| RP-50 | RP-101158 | 0846 | - | Adding new IEs related to PPAC to the default system information block type 3 | F | 9.2.0 | 9.3.0 | R5-106260 |
| RP-50 | RP-101134 | 0847 | - | Addition SIB schedule for LCR TDD two S-CCPCH or two PRACH | F | 9.2.0 | 9.3.0 | R5-106343 |
| RP-50 | RP-101134 | 0848 | - | Correction the TTI for LCR TDD 3.4kbps SRBs (multiframe) | F | 9.2.0 | 9.3.0 | R5-106344 |
| RP-50 | RP-101134 | 0849 | - | Update for Band IX testing | F | 9.2.0 | 9.3.0 | R5-106382 |
| RP-50 | RP-101160 | 0850 | - | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 25 to 28 | F | 9.2.0 | 9.3.0 | R5-106435 |
| RP-50 | RP-101134 | 0851 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of SRBs mapped on E-DCH/DCH | F | 9.2.0 | 9.3.0 | R5-106499 |
| RP-50 | RP-101134 | 0852 | - | Correction to DL DPCH transmit power for 64 KBPS CS + 64 KBPS PS call | F | 9.2.0 | 9.3.0 | R5-106669 |
| RP-50 | RP-101134 | 0853 | - | Corrections to default settings of Elementary Files (EFs) on Test USIM | F | 9.2.0 | 9.3.0 | R5-106701 |
| RP-50 | RP-101138 | 0854 | - | GPS Assistance Data corrections | F | 9.2.0 | 9.3.0 | R5-106814 |
| RP-51 | RP-110153 | 0855 | - | Correction Physical channel parameters of downlink 128kbps PS RAB for LCR TDD in 34.108 | F | 9.3.0 | 9.4.0 | R5-110615 |
| RP-51 | RP-110153 | 0856 | - | Correction UARFCN and Frequency of band e for LCR TDD in 34.108 | F | 9.3.0 | 9.4.0 | R5-110620 |
| RP-51 | RP-110165 | 0857 | - | Reduce the channel code for HS-SCCH and HS-SICH, and adjust channel code of E-AGCH and E-HICH for LCR TDD RADIO BEARER SETUP | F | 9.3.0 | 9.4.0 | R5-110621 |
| RP-51 | RP-110154 | 0858 | - | Reduce the channel code for HS-SCCH and HS-SICH for LCRTDD SIB5 | F | 9.3.0 | 9.4.0 | R5-110622 |
| RP-51 | RP-110165 | 0859 | - | Addition of comments for Rel-8 UE behaviour in section 7.2.4 (session setup) | F | 9.3.0 | 9.4.0 | R5-110667 |
| RP-51 | RP-110177 | 0860 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of combination of DC-HSDPA with MIMO | F | 9.3.0 | 9.4.0 | R5-110695 |
| RP-52 | RP-110642 | 0861 | - | Corrections to RRC Connection Setup message default contents for conditions A4 and A6 | F | 9.4.0 | 9.5.0 | R5-112420 |
| RP-52 | RP-110651 | 0862 | - | Correction to RB setup message for DC-HSDPA | F | 9.4.0 | 9.5.0 | R5-112432 |
| RP-52 | RP-110667 | 0863 | - | Addition of DB-DC-HSDPA into 34.108 | F | 9.4.0 | 9.5.0 | R5-112840 |
| RP-53 | RP-111150 | 0864 | - | Adding RF procedure for DC-HSUPA tests | F | 9.5.0 | 9.6.0 | R5-113080 |
| RP-53 | RP-111152 | 0865 | - | Removal of A-GPS Assistance Data | F | 9.5.0 | 9.6.0 | R5-113144 |
| RP-53 | RP-111131 | 0866 | - | Correction the contents of PHYSICAL CHANNEL RECONFIGURATION in 34.108 for LCR TDD | F | 9.5.0 | 9.6.0 | R5-113244 |
| RP-53 | RP-111133 | 0867 | - | Corrections to RRC Connection Setup message (Enhanced FACH Downlink) | F | 9.5.0 | 9.6.0 | R5-113616 |
| RP-53 | RP-111146 | 0868 | - | Modification for Rel-9 HNB protocol testing | F | 9.5.0 | 9.6.0 | R5-113777 |
| RP-53 | RP-111142 | 0869 | - | Corrections to Radio Bearer Setup message (DC-HSDPA) | F | 9.5.0 | 9.6.0 | R5-113791 |
| RP-53 | RP-111133 | 0870 | - | Addition of the default RADIO BEARER SETUP message (FDD) for support of 16QAM+MIMO for HSDPA. | F | 9.5.0 | 9.6.0 | R5-113799 |
| RP-54 | RP-111583 | 0871 | - | Add new SIB scheduling for long SIB5/SIB5bis | F | 9.6.0 | 9.7.0 | R5-115102 |
| RP-54 | RP-111597 | 0873 | - | Adding band XXII (3500MHz) to 34.108 | F | 9.6.0 | 9.7.0 | R5-115192 |
| RP-54 | RP-111572 | 0874 | - | Correction the TFCI code word / radio frame for downlink in 6.11.5.4.14 for LCR TDD | F | 9.6.0 | 9.7.0 | R5-115278 |
| RP-54 | RP-111571 | 0875 | - | Use of IPv4 in session setup procedure | F | 9.6.0 | 9.7.0 | R5-115369 |
| RP-54 | RP-111574 | 0876 | - | Introduction of reference radio bearer combination for NISPC testing | F | 9.6.0 | 9.7.0 | R5-115398 |

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|-------------------|---------------|------|-----|---|-----|-----------------|-------------|---------------|
| RP-54 | - | - | - | Moved to Rel-10 with no change | - | 9.7.0 | 10.0.0 | - |
| RP-54 | RP-111601 | 0872 | - | Addition of test procedure for performance requirement under multiple-cell scenario for 1,28 Mcps TDD | F | 10.0.0 | 11.0.0 | R5-115130 |
| RP-55 | RP-120172 | 0879 | - | LCR TDD enhancement of RRC messages to Rel-10 | F | 11.0.0 | 11.1.0 | R5-120491 |
| RP-55 | RP-120194 | 0880 | - | Addition of radio bearer parameters for UE E-DCH physical layer categories 8 and 9 | F | 11.0.0 | 11.1.0 | R5-120539 |
| RP-55 | RP-120183 | 0881 | - | Correction to Radio Bearer Setup message (mac-i/is) | F | 11.0.0 | 11.1.0 | R5-120605 |
| RP-55 | RP-120184 | 0882 | - | Define generic procedure and default HSPA RB for IMS emergency call setup. | F | 11.0.0 | 11.1.0 | R5-120687 |
| RP-56 | RP-120663 | 0883 | - | Introduction of default messages for ANR for UTRAN test cases | F | 11.1.0 | 11.2.0 | R5-121101 |
| RP-56 | RP-120655 | 0884 | - | Addition of Generic IMS Emergency call set up procedure for mobile originating packet switched sessions - Limited Service | F | 11.1.0 | 11.2.0 | R5-121115 |
| RP-56 | RP-120664 | 0885 | - | Update of System Information Block Type 3 | F | 11.1.0 | 11.2.0 | R5-121117 |
| RP-56 | RP-120664 | 0886 | - | Addition of 4C-HSDPA into 34.108 | F | 11.1.0 | 11.2.0 | R5-121119 |
| RP-56 | RP-120648 | 0887 | - | Introduce an access control class default value | F | 11.1.0 | 11.2.0 | R5-121120 |
| RP-56 | RP-120636 | 0888 | - | Addition of default power levels of physical channels for LCR TDD | F | 11.1.0 | 11.2.0 | R5-121124 |
| RP-56 | RP-120669 | 0889 | - | Correction to references for A-GPS | F | 11.1.0 | 11.2.0 | R5-121125 |
| RP-56 | RP-120656 | 0890 | - | Introduction of default RRC messages for DC-HSUPA | F | 11.1.0 | 11.2.0 | R5-121255 |
| RP-56 | RP-120656 | 0891 | - | Introduction of new reference radio bearer combination for DC-HSUPA MAC testing | F | 11.1.0 | 11.2.0 | R5-121355 |
| RP-56 | RP-120635 | 0892 | - | Correction to QoS for requested bearer | F | 11.1.0 | 11.2.0 | R5-121434 |
| RP-56 | RP-120648 | 0893 | - | Clarification of the scope of Band a for 1.28 Mcps TDD option in TS 34.108 | F | 11.1.0 | 11.2.0 | R5-121454 |
| RP-56 | RP-120640 | 0894 | - | Correction to RF Default Messages for TDD in 34.108 | F | 11.1.0 | 11.2.0 | R5-121537 |
| RP-56 | RP-120648 | 0895 | - | Correction of enhanced CELL_FACH uplink channel configuration | F | 11.1.0 | 11.2.0 | R5-121688 |
| RP-56 | RP-120648 | 0896 | - | Addition of default System Information Block Type 19 into 34.108 | F | 11.1.0 | 11.2.0 | R5-121718 |
| RP-56 | RP-120664 | 0897 | - | Update of Radio Bearer Reconfiguration Message | F | 11.1.0 | 11.2.0 | R5-121818 |
| RP-56 | RP-120664 | 0898 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of 4C HSDPA | F | 11.1.0 | 11.2.0 | R5-121819 |
| RP-56 | RP-120640 | 0899 | - | Correction to Default SI Messages for TDD in 34.108 | F | 11.1.0 | 11.2.0 | R5-121943 |
| RP-56 | RP-120656 | 0900 | - | Definition of default RB SETUP message for DC-HSUPA RF tests in section 9.2 | F | 11.1.0 | 11.2.0 | R5-121953 |
| RP-56 | RP-120656 | 0901 | - | RB SETUP message for DC-HSUPA RF tests | F | 11.1.0 | 11.2.0 | R5-121993 |
| RP-57 | RP-121090 | 0902 | - | Change the UL and DL Transport channel information common in RB release message for A5-A8 and A10 for LCR TDD in 34.108 | F | 11.2.0 | 11.3.0 | R5-123193 |
| RP-57 | RP-121093 | 0903 | - | Addition some IE's default value for LCR TDD in 34.108 | F | 11.2.0 | 11.3.0 | R5-123195 |
| RP-57 | RP-121109 | 0904 | - | Correction to radio beared message content for DC-HSUPA tests | F | 11.2.0 | 11.3.0 | R5-123240 |
| RP-57 | RP-121103 | 0905 | - | Correction of reference test frequency in band e for 1.28 Mcps option | F | 11.2.0 | 11.3.0 | R5-123374 |
| RP-57 | RP-121109 | 0906 | - | Correction to RADIO BEARER SETUP message for DC-HSUPA protocol testing | F | 11.2.0 | 11.3.0 | R5-123471 |
| RP-57 | RP-121111 | 0907 | - | Adding FDD reference test frequencies for Operating Band XXV | F | 11.2.0 | 11.3.0 | R5-123711 |
| RP-57 | RP-121094 | 0908 | - | Correction to Default SIB5 for TDD in 34.108 | F | 11.2.0 | 11.3.0 | R5-123717 |
| RP-57 | RP-121102 | 0909 | - | Correction to default contents of Radio Bearer Setup message for configuration A19a in 34.108 | F | 11.2.0 | 11.3.0 | R5-123745 |
| RP-57 | RP-121090 | 0910 | - | Addition default physical channels code allocation for Signalling for LCR TDD in 34.108 | F | 11.2.0 | 11.3.0 | R5-123770 |
| RP-58 | RP-121654 | 0911 | - | Addition of new condition A19b to default message content for Radio Bearer setup message | F | 11.3.0 | 11.4.0 | R5-125082 |

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| RP-58 | RP-121673 | 0912 | - | Addition of 16QAM related IEs to RB Setup message for DC-HSUPA | F | 11.3.0 | 11.4.0 | R5-125248 |
| RP-58 | RP-121663 | 0913 | - | Correction to MAC-ehs window size in RB SETUP message(DC-HSDPA) | F | 11.3.0 | 11.4.0 | R5-125400 |
| RP-58 | RP-121705 | 0914 | - | Addition of a connection set up procedure for CS+PS multi RAB combination. | F | 11.3.0 | 11.4.0 | R5-125480 |
| RP-58 | RP-121663 | 0915 | - | Clarification of IPv6 signalling | F | 11.3.0 | 11.4.0 | R5-125676 |
| RP-58 | RP-121654 | 0916 | - | Correction to default RADIO BEARER SETUP message (FDD) condition A28a for support of MIMO/Non-MIMO Co-existence Tests | F | 11.3.0 | 11.4.0 | R5-125677 |
| RP-58 | RP-121680 | 0917 | - | Update of the default RADIO BEARER SETUP message (FDD) for support of 4C HSDPA | F | 11.3.0 | 11.4.0 | R5-125688 |
| RP-58 | RP-121653 | 0918 | - | Correction some parameters value in 34.108 for LCR TDD | F | 11.3.0 | 11.4.0 | R5-126014 |
| RP-59 | RP-130145 | 0919 | - | Correction the default value of RACH and E-RUCCH in SIB5 for 1.28Mcps TDD | F | 11.4.0 | 11.5.0 | R5-130165 |
| RP-59 | RP-130145 | 0920 | - | Correction of default RADIO BEARER SETUP message for DC-HSUPA testing. | F | 11.4.0 | 11.5.0 | R5-130235 |
| RP-59 | RP-130145 | 0921 | - | Addition of test frequencies for DC-HSUPA | F | 11.4.0 | 11.5.0 | R5-130236 |
| RP-60 | RP-130625 | 0922 | - | Addition of default IEs for MDT | F | 11.5.0 | 11.6.0 | R5-131420 |
| RP-60 | RP-130609 | 0923 | - | Addition of FDD reference test frequencies for Operating Band XXVI (FDD26) into TS 34.108 | F | 11.5.0 | 11.6.0 | R5-131755 |
| RP-60 | RP-130621 | 0924 | - | Test frequencies for 3C/4C HSDPA | F | 11.5.0 | 11.6.0 | R5-131773 |
| RP-60 | RP-130611 | 0925 | - | Update the default message content of RRC CONNECTION REQUEST | F | 11.5.0 | 11.6.0 | R5-131874 |
| RP-61 | RP-131099 | 0926 | - | Correction of specific Message contents of Radio Bearer Setup message for condition A25b, A17d and A17e | F | 11.6.0 | 11.7.0 | R5-133096 |
| RP-61 | RP-131102 | 0927 | - | Correction the contents of condition A19 and A20 for RADIO BEARER SETUP of 1.28Mcps TDD | F | 11.6.0 | 11.7.0 | R5-133209 |
| RP-61 | RP-131112 | 0928 | - | Correction to default ACTIVE SET UPDATE message | F | 11.6.0 | 11.7.0 | R5-133211 |
| RP-61 | RP-131100 | 0929 | - | Correction to Midamble configuration in SIB5(1.28 Mcps TDD) | F | 11.6.0 | 11.7.0 | R5-133439 |
| RP-61 | RP-131100 | 0930 | - | Addition of Procedure for IP address allocation in the U-plane | F | 11.6.0 | 11.7.0 | R5-133560 |
| RP-61 | RP-131100 | 0931 | - | Definition of default contents for EF HPLMNwAcT on TestUSIM | F | 11.6.0 | 11.7.0 | R5-133561 |
| RP-61 | RP-131112 | 0932 | - | Update of RB Setup for Conditions A33, A34, A35 and A36 | F | 11.6.0 | 11.7.0 | R5-133634 |
| RP-61 | RP-131257 | 0933 | - | Correction the default configuration for FACH of 1.28Mcps TDD | F | 11.6.0 | 11.7.0 | R5-133724 |
| RP-61 | RP-131121 | 0934 | - | Addition of test procedure for RF to configure UL CLTD | F | 11.6.0 | 11.7.0 | R5-133877 |
| RP-62 | RP-131875 | 0935 | - | Update of RB Setup for Conditions A33, A34, A35 and A36 and addition of new condition A37 | F | 11.7.0 | 11.8.0 | R5-134693 |
| RP-62 | RP-131875 | 0936 | - | Introduction of FDD downlink physical channels code allocation for E-DCH signalling testing using HSDPA configuration with 64QAM and MIMO | F | 11.7.0 | 11.8.0 | R5-134694 |
| RP-62 | RP-131858 | 0937 | - | Correction of the value of UL target SIR for DPCH for LCR TDD | F | 11.7.0 | 11.8.0 | R5-134734 |
| RP-62 | RP-131857 | 0938 | - | Correction to reference test frequencies for Band XII, XXV and XXVI | F | 11.7.0 | 11.8.0 | R5-134905 |
| RP-62 | RP-131878 | 0939 | - | Addition of default IEs for eMDT | F | 11.7.0 | 11.8.0 | R5-134915 |
| RP-62 | RP-131881 | 0940 | - | Addition of test procedure for UL OLTD | F | 11.7.0 | 11.8.0 | R5-134971 |
| RP-63 | RP-140303 | 0941 | - | Correction of Midamble Configuration for LCR TDD | F | 11.8.0 | 11.9.0 | R5-140195 |
| RP-63 | RP-140324 | 0942 | - | Addition of test procedure to configure UL CLTD with E-DCH | F | 11.8.0 | 11.9.0 | R5-140472 |
| RP-63 | RP-140324 | 0943 | - | Addition of test procedure for RF to configure UL OLTD with E-DCH | F | 11.8.0 | 11.9.0 | R5-140533 |
| RP-63 | RP-140308 | 0944 | - | Correction to Default Radio Bearer Setup message | F | 11.8.0 | 11.9.0 | R5-140676 |
| RP-63 | R5-140319 | 0945 | - | Minor correction of 4C-HSDPA RADIO BEARER SETUP | F | 11.8.0 | 11.9.0 | R5-140677 |

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| RP-63 | RP-140306 | 0946 | - | Correction to default RADIO BEARER SETUP message (DC-HSDPA, DB-DC-HSDPA and 4C) | F | 11.8.0 | 11.9.0 | R5-140678 |
| RP-63 | RP-140306 | 0947 | - | Introduction of generic HOLD and MPTY set up procedures | F | 11.8.0 | 11.9.0 | R5-140683 |
| RP-63 | RP-140306 | 0948 | - | Adding default messages for supplementary service testing | F | 11.8.0 | 11.9.0 | R5-140684 |
| RP-63 | RP-140330 | 0949 | - | Update Radio Bearer Setup message for Multiflow HSDPA tests | F | 11.8.0 | 11.9.0 | R5-140964 |
| RP-64 | RP-140836 | 0950 | - | Update Radio Bearer Setup message for Multiflow HSDPA tests | F | 11.9.0 | 11.10.0 | R5-142116 |
| RP-64 | RP-140811 | 0951 | - | Update to clause 6.10.2.4.6.1. | F | 11.9.0 | 11.10.0 | R5-142118 |
| RP-64 | RP-140812 | 0952 | - | Correction to MPTY call setup procedure | F | 11.9.0 | 11.10.0 | R5-142136 |
| RP-64 | RP-140810 | 0953 | - | Correction of Midamble Configuration of FPACH for LCR TDD | F | 11.9.0 | 11.10.0 | R5-142291 |
| RP-64 | RP-140837 | 0954 | - | Addition of default message content for SIB21 | F | 11.9.0 | 11.10.0 | R5-142418 |
| RP-64 | RP-140810 | 0955 | - | Correction to Radio Bearer Setup Message for TD-SCDMA | F | 11.9.0 | 11.10.0 | R5-142431 |
| RP-64 | RP-140836 | 0956 | - | Addition of Multiflow HSDPA into TS 34.108 | F | 11.9.0 | 11.10.0 | R5-142805 |
| RP-64 | RP-140837 | 0957 | - | Addition of SIB schedule for EAB test cases | F | 11.9.0 | 11.10.0 | R5-142807 |
| RP-65 | RP-141592 | 0958 | - | Update Radio Bearer Setup message for Multiflow HSDPA tests | F | 11.10.0 | 11.11.0 | R5-144261 |
| RP-65 | RP-141575 | 0959 | - | Updates to section 7.5 and addition of new clauses 7.5.6, 7.5.7, 7.5.8 and 7.5.9 of 34.108 | F | 11.10.0 | 11.11.0 | R5-144408 |
| RP-65 | RP-141575 | 0960 | - | Update to missing dual band combinations of 4C-HSDPA configurations | F | 11.10.0 | 11.11.0 | R5-144532 |
| RP-65 | RP-141570 | 0961 | - | Editorial correction to Radio bearer Setup Message for TD-SCDMA | F | 11.10.0 | 11.11.0 | R5-144623 |
| RP-65 | RP-141591 | 0962 | - | Adding SIB22 scheduling and SIB22 default message for Enhanced CELL_FACH testing | F | 11.10.0 | 11.11.0 | R5-144708 |
| RP-65 | RP-141575 | 0963 | - | Addition of E-UTRA Capability in RRC Connection Setup | F | 11.10.0 | 11.11.0 | R5-144813 |
| RP-66 | RP-142053 | 0964 | - | Corrections to the default message contents for SS | F | 11.11.0 | 11.12.0 | R5-145090 |
| RP-66 | RP-142072 | 0965 | - | New common procedure for Active Set Update | F | 11.11.0 | 11.12.0 | R5-145141 |
| RP-66 | RP-142053 | 0966 | - | Correction to frequency band indicator for SIB5 | F | 11.11.0 | 11.12.0 | R5-145171 |
| RP-66 | RP-142053 | 0967 | - | Correction to default value of System Information Block type 5 for FDD | F | 11.11.0 | 11.12.0 | R5-145647 |
| RP-66 | RP-142058 | 0968 | - | Corrections in the default RADIO BEARER SETUP message for 4C HSDPA | F | 11.11.0 | 11.12.0 | R5-145758 |
| RP-66 | RP-142072 | 0969 | - | Corrections in the default RADIO BEARER SETUP message for Multiflow | F | 11.11.0 | 11.12.0 | R5-145759 |
| RP-66 | RP-142072 | 0970 | - | Introduction of a new configuration A17f in default RADIO BEARER SETUP message | F | 11.11.0 | 11.12.0 | R5-145760 |
| RP-67 | RP-150322 | 0971 | - | Correction to Contents of System Information Block Type 5 for condition B2 & B3 | F | 11.12.0 | 11.13.0 | R5-150096 |
| RP-67 | RP-150322 | 0972 | - | Correction to default value of System Information Block type 5 for FDD | F | 11.12.0 | 11.13.0 | R5-150153 |
| RP-67 | RP-150325 | 0973 | - | Corrections in the default RADIO BEARER SETUP message for DC-HSDPA with MIMO | F | 11.12.0 | 11.13.0 | R5-150541 |
| RP-67 | RP-150327 | 0974 | - | Corrections in the default RADIO BEARER SETUP message for 4C-HSDPA | F | 11.12.0 | 11.13.0 | R5-150542 |
| RP-67 | RP-150339 | 0975 | - | Corrections in the default RADIO BEARER SETUP message for Multiflow | F | 11.12.0 | 11.13.0 | R5-150544 |
| RP-67 | RP-150322 | 0976 | - | Correction to UTRAN Radio Bearer Setup Message for condition A30 | F | 11.12.0 | 11.13.0 | R5-150605 |
| RP-67 | RP-150321 | 0977 | - | Correction to the default RADIO BEARER SETUP message for A28a MIMO/nonMIMO | F | 11.12.0 | 11.13.0 | R5-150619 |
| RP-68 | RP-150886 | 0983 | - | Correction to RADIO BEARER SETUP message condition A25c | F | 11.13.0 | 11.14.0 | R5-151712 |
| RP-68 | RP-150904 | 0982 | 1 | Correction to the multiple messages to include Rel. 11 and Rel. 12 IEs | F | 11.14.0 | 12.0.0 | R5-151729 |
| RP-68 | RP-150905 | 0978 | 1 | Addition of band XXXII to 34.108 | F | 11.14.0 | 12.0.0 | R5-151886 |
| RP-68 | RP-150903 | 0979 | 1 | Introduction of Reference system configuration for UTRA-WLAN interworking | F | 11.14.0 | 12.0.0 | R5-151991 |

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| RP-68 | RP-150903 | 0980 | 1 | Corrections to preamble steps for UTRA-WLAN interworking | F | 11.14.0 | 12.0.0 | R5-151992 |
| RP-68 | RP-150903 | 0981 | 1 | Adding contents Dedicated WLAN offload information in UTRAN Mobility Information | F | 11.14.0 | 12.0.0 | R5-151993 |
| RP-69 | RP-151424 | 0984 | - | Addition of new state and procedure to be used in WLAN interworking test cases | F | 12.0.0 | 12.1.0 | R5-153324 |
| RP-69 | RP-151408 | 0986 | 1 | Correction to the default message contents of CM SERVICE REQUEST message | F | 12.0.0 | 12.1.0 | R5-153983 |
| RP-69 | - | - | - | update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC | - | 12.0.0 | 12.1.0 | - |
| RP-72 | RP-160845 | 0990 | - | Editorial correction in RRC Connection setup message | F | 12.1.0 | 12.2.0 | R5-162183 |
| RP-72 | RP-160845 | 0991 | 1 | Correction to RRC Connection setup message for condition UTRAN to E-UTRA | F | 12.1.0 | 12.2.0 | R5-162753 |
| RP-73 | RP-161426 | 0992 | 1 | Correction to System Information Block Type 5 (Enhanced CellFACH uplink) | F | 12.2.0 | 12.3.0 | R5-165884 |
| RP-73 | RP-161437 | 0993 | - | Correction to URA Update message | F | 12.2.0 | 12.3.0 | R5-165902 |
| RP-75 | RP-170107 | 0994 | 1 | Addition of MFBI test frequencies for UTRAN | F | 12.3.0 | 12.4.0 | R5-171398 |
| RP-75 | - | - | - | Administrative release upgrade to match the release of TS 36.508 and TS 36.523-2 which were upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s) | - | 12.4.0 | 13.0.0 | - |

History

| Document history | | |
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