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*Technical Specification*

**Universal Mobile Telecommunications System (UMTS);  
User Equipment (UE) Protocol/RF/EMC  
conformance specification;  
Part 2: Implementation Conformance Statement (ICS)  
proforma specification  
(3GPP TS 34.123-2 version 3.1.0 Release 1999)**

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**Reference**

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## Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

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# 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3<sup>rd</sup> Generation User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [2] and ETS 300 406 [3].

This document also specifies a recommended applicability statement for the test cases included in TS 34.123-1. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [45] and the common test environments are included in 3GPP TS 34.108 [44].

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# 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.

- [1] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [2] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [3] ETSI ETS 300 406 (January 1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [4] 3GPP TR 21.904: "Terminal Capability Requirements".
- [5] 3GPP TS 22.002: "Bearer Services (BS) supported by a GSM; Public Land Mobile Network (PLMN)".
- [6] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [7] 3GPP TS 22.004: "General on Supplementary Services".
- [8] 3GPP TS 22.042: "Network Identity and Timezone (NITZ); Service description, Stage 1".
- [9] 3GPP TS 22.057: "Mobile Station Application Execution Environment (MExE); Stage 1".
- [10] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Stage 1".
- [11] 3GPP TS 22.067: "Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2".
- [12] 3GPP TS 22.071: "Location Services (LCS); Stage 1".
- [13] 3GPP TS 22.072: "Call Deflection Service description - Stage 1".
- [14] 3GPP TS 22.081: "Line identification Supplementary Services; Stage 1".
- [15] 3GPP TS 22.082: "Call Forwarding (CF) supplementary services - Stage 1".
- [16] 3GPP TS 22.083: "Call Waiting (CW) and Call Holding (HOLD); Supplementary Services - Stage 1".

- [17] 3GPP TS 22.084: "MultiParty (MPTY) Supplementary Services - Stage 1".
- [18] 3GPP TS 22.085: "Closed User Group (CUG) Supplementary Services - Stage 1".
- [19] 3GPP TS 22.086: "Advice of Charge (AoC) Supplementary Services - Stage 1".
- [20] 3GPP TS 22.087: "User-to-user signalling (UUS) - Stage 1".
- [21] 3GPP TS 22.088: "Call Barring (CB) Supplementary Services - Stage 1".
- [22] 3GPP TS 22.090: "Unstructured Supplementary Service Data (USSD) - Stage 1".
- [23] 3GPP TS 22.091: "Explicit Call Transfer (ECT)".
- [24] 3GPP TS 22.093: "Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1".
- [25] 3GPP TS 22.094: "Follow Me - Stage 3".
- [26] 3GPP TS 22.096: "Name identification supplementary services; Stage 1".
- [27] 3GPP TS 22.097: "Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1".
- [28] 3GPP TS 22.105: "Services and Service Capabilities".
- [29] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3".
- [30] 3GPP TS 22.135: "Multicall Stage 2"
- [31] 3GPP TS 23.107: "Quality of Service, Concept and Architecture".
- [32] 3GPP TS 25.201: "Physical layer -General Description".
- [33] 3GPP TS 25.101: "UE radio transmission and reception (FDD)".
- [34] 3GPP TS 25.102: "UE radio transmission and reception (TDD)".
- [35] 3GPP TS 25.321: "Medium Access Control (MAC) Protocol Specification".
- [36] 3GPP TS 25.322: "Radio Link Control (RLC) Protocol Specification".
- [37] 3GPP TS 25.323: "Packet Data Convergence Protocol (PDCP) protocol".
- [38] 3GPP TS 25.324: "Radio Interface for Broadcast/Multicast Services".
- [39] 3GPP TS 25.331: "Radio Resource Control (RRC) Protocol Specification".
- [40] 3GPP TS 25.926: "UE Radio Access capabilities definition"
- [41] 3GPP TS 26.071: "AMR speech Codec; General description".
- [42] 3GPP TS 26.111: "Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324"
- [43] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".
- [44] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".
- [45] 3GPP TS 34.109: "Logical Test Interface (TDD and FDD)".
- [46] 3GPP TS 34.121: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".
- [47] 3GPP TS 34.122: "Terminal Conformance Specification, Radio Transmission and Reception (FDD)".
- [48] 3GPP TS 34.124: "Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1".

- [49] 3GPP TS 34.123-1: "User Equipment (UE) Conformance Specification, Part 1 - Conformance specification".
- [50] 3GPP TS 34.123-3: "User Equipment (UE) Conformance Specification, Part 3 - Abstract Test Suite".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

- terms defined in the relevant 3GPP core specifications (see normative references);
- terms defined in ISO/IEC 9646-1 [1] and in ISO/IEC 9646-7 [2].

In particular, the following terms defined in ISO/IEC 9646-1 [1] apply:

**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

**ICS proforma:** document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

### 3.2 Abbreviations

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

ICS	Implementation Conformance Statement
SCS	System Conformance Statement
UEUT	User Equipment Under Test

## 4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of this specification.

The columns in Table 1 have the following meaning:

#### Clause

The clause column indicates the clause number in 34.123-1 that contains the test body.

#### Title

The title column describes the name of the test.

#### Applicability

The following notations are used for the applicability column:

R	recommended - the test case is recommended
N/A	not applicable - in the given context, the test case is not recommended.



Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

#### Comments

This column contains a verbal description of the condition included in the applicability column.

Table 1: Applicability of tests

Clause	Title	Applicability	Comments
<b>IDLE MODE</b>			
6.1.1.1	Manual mode PLMN selection/reselection and UE indication of available PLMNs	C19	UEs supporting only FDD
6.1.1.2	Manual mode PLMN selection/reselection; independence of RF level and preferred PLMN	C19	UEs supporting only FDD
		[FFS]	[FFS]
6.1.1.3	Automatic mode PLMN selection	C19	UEs supporting only FDD
6.1.1.4	UE will transmit only if PLMN available	[FFS]	[FFS]
		[FFS]	[FFS]
		[FFS]	[FFS]
6.1.2.1	UE selects radio access mode (FDD/TDD) on request by the servicing network	C03 [FFS]	UEs supporting FDD+TDD
6.1.3.1	Cell selection	C19	UEs supporting only FDD
6.1.3.2	Cell selection on release of DCCH and DTCH	C19	UEs supporting only FDD
6.1.3.3	Cell reselection	C19	UEs supporting only FDD
6.1.3.4	Cell reselection using reselection timing parameters	C19	UEs supporting only FDD
6.1.3.5	Cell reselection if HCS is used	C19	UEs supporting only FDD
6.1.3.6	Cell reselection due to UE rejection "LA not allowed"	C19	UEs supporting only FDD
6.1.3.7	Cell reselection due to UE rejection "Roaming not allowed in this LA"	C19	UEs supporting only FDD
6.1.3.8	Emergency calls	C04	UEs supporting only FDD and speech
6.1.3.9	Immediate Cell Evaluation	C19	UEs supporting only FDD
6.1.3.10	Reading SIB prior to RACH transmission	C19	UEs supporting only FDD
6.1.4	Location registration	C19[FFS]	UEs supporting only FDD
6.2.2.1	Cell selection; UTRAN/GSM	C05	UEs supporting FDD and GSM
6.2.2.2	Cell reselection; UTRAN to GSM	C05	UEs supporting FDD and GSM
6.2.2.3	Cell reselection timings; GSM to UTRAN	C05	UEs supporting FDD and GSM
6.2.3	Location registration	C05 [FFS]	UEs supporting FDD and GSM
<b>LAYER 2</b>			
7.1.1	Permission to access the network	[FFS]	All UEs [FFS]
7.1.2.1	Selection and control of Power Level	R	All UEs
7.1.2.2	Correct application of Dynamic Persistence	R	All UEs
7.1.2.3	Correct Selection of RACH parameters	R	All UEs
7.1.3	Dynamic Radio Bearer Control	[FFS]	[FFS]
7.1.4	RACH/FACH transmission and retransmission	[FFS]	[FFS]
7.1.5	MAC Access Control Function	[FFS]	[FFS]
7.1.6	Inband identification of UE on FACH	[FFS]	[FFS]
7.1.7	Inband identification of UE on DSCH	[FFS]	[FFS]
7.2.1.1	RLC testing / Transparent mode / Segmentation and reassembly	R	All UEs
7.2.2.2	UM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	R	All UEs
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs
7.2.2.7	UM RLC / Segmentation / 15-bit Length Indicators / Padding	[FFS]	All UE supporting packet data
7.2.2.8	UM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.2.9	UM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	[FFS]	All UE supporting packet data
7.2.2.10	UM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.3.2	AM RLC / Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators	R	All UEs
7.2.3.3	AM RLC / Segmentation / 7-bit Length Indicators / Padding	R	All UEs
7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	R	All UEs
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	R	All UEs

Clause	Title	Applicability	Comments
7.2.3.7	AM RLC / Segmentation / 15-bit Length Indicators / Padding or Piggy-backed Status	R	All UEs
7.2.3.8	AM RLC / Segmentation / 15-bit Length Indicators / LI = 0	R	All UEs
7.2.3.9	AM RLC / Segmentation / 15-bit Length Indicators / One octet short LI	R	All UEs
7.2.3.10	AM RLC / Segmentation / 15-bit Length Indicators / Reserved LI value	R	All UEs
7.2.3.11	AM RLC / Segmentation / 15-bit Length Indicators / LI value > PDU size	R	All UEs
7.2.3.12	AM RLC / Correct use of Sequence Numbering	R	All UEs
		R	
7.2.3.13	AM RLC / Control of Transmit Window	R	All UEs
7.2.3.14	AM RLC / Control of Receive Window	R	All UEs
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	R	All UEs
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	R	All UEs
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	R	All UEs
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	R	All UEs
7.2.3.19	AM RLC / Polling for status / Timer triggered polling (Timer_Poll_Periodic)	R	All UEs
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window% of transmission window	R	All UEs
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer expiry	R	All UEs
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping Timer_Poll timer	R	All UEs
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of the Timer_Poll timer	R	All UEs
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	R	All UEs
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	R	All UEs
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Periodic	R	All UEs
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer Timer_Status_Prohibit	R	All UEs
7.2.3.28	AM RLC / Timer based discard, with explicit signalling / Expiry of Timer_Discard	[FFS]	[FFS]
7.2.3.29	AM RLC / Timer based discard, with explicit signalling / Failure of MRW procedure	[FFS]	[FFS]
7.2.3.30	AM RLC / SDU discard after MaxDAT number of retransmissions	[FFS]	[FFS]
7.2.3.31	AM RLC / Operation of the RLC Reset procedure / UE Originated	[FFS]	[FFS]
7.2.3.32	AM RLC / Operation of the RLC Reset procedure / UE Terminated	[FFS]	[FFS]
7.2.3.11	RLC testing / Acknowledged mode / Operation of Polling on the last PU	R	All UEs
7.2.3.12	RLC testing / Acknowledged mode / Operation of Polling using Poll_PU variable	R	All UEs
7.2.3.13	RLC testing / Acknowledged mode / Operation of Polling using Poll_SDU variable	R	All UEs
7.2.3.14	RLC testing / Acknowledged mode / Operation of timer Timer_Poll and Timer_Poll_Periodic	R	All UEs
7.2.3.15	RLC testing / Acknowledged mode / Operation of timer Timer_Poll_Prohibit	R	All UEs
7.2.3.16	RLC testing / Acknowledged mode / Operation of timers Timer_Status and Timer_Status_Periodic	R	All UEs
7.2.3.17	RLC testing / Acknowledged mode / Timer based discard, with explicit signalling	R	All UEs

Clause	Title	Applicability	Comments
7.2.3.18	RLC testing / Acknowledged mode / Timer based discard, without explicit signalling, Acknowledged mode	R	All UEs
7.2.3.19	RLC testing / Acknowledged mode / SDU discard after MaxDAT number of retransmissions	R	All UEs
7.2.3.20	RLC testing / Acknowledged mode / Use of RESET procedure in case of an unrecoverable error	R	All UEs
<b>RADIO RESOURCE CONTROL</b>			
8.1.1.1	RRC / Paging for Connection in idle mode	C01	UEs supporting FDD.
8.1.1.2	RRC / Paging for Connection in connected mode (CELL_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.3	RRC / Paging for Connection in connected mode (URA_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.4	RRC / Paging for Notification in idle mode	C01	UEs supporting FDD.
8.1.1.5	RRC / Paging for Notification in connected mode (CELL_PCH)	C06	UEs supporting FDD and supporting PS bearer service.
8.1.1.6	RRC / Paging for Notification in connected mode (URA_PCH)	C01	UEs supporting FDD.
8.1.1.7	RRC / Paging for Connection in connected mode (CELL_DCH)	C01	UEs supporting FDD.
8.1.1.8	RRC / Paging for Connection in connected mode (CELL_FACH)	C01	UEs supporting FDD.
8.1.2.1	RRC / RRC Connection Establishment in CELL_DCH state: Success	C01	UEs supporting FDD.
8.1.2.2	RRC / RRC Connection Establishment: Success after T300 timeout	C01	UEs supporting FDD.
8.1.2.3	RRC / RRC Connection Establishment: Failure (V300 is greater than N300)	C01	UEs supporting FDD.
8.1.2.4	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0)	C01	UEs supporting FDD.
8.1.2.5	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0 and V300 is greater than N300)	C01	UEs supporting FDD.
8.1.2.6	RRC / RRC Connection Establishment: Reject ("wait time" is set to 0)	C01	UEs supporting FDD.
8.1.2.7	RRC / RRC Connection Establishment in CELL_FACH state: Success	C01	UEs supporting FDD.
8.1.2.8	RRC / RRC Connection Establishment : Invalid system information message reception	C01	UEs supporting FDD.
8.1.3.1	RRC / RRC Connection Release in CELL_DCH state: Successful	C01	UEs supporting FDD.
8.1.3.2	RRC / RRC Connection Release in CELL_FACH state: Successful	C01	UEs supporting FDD.
8.1.3.3	RRC / RRC Connection Release in CELL_FACH state: Failure	C01	UEs supporting FDD.
8.1.4.1	RRC / RRC Connection Re-Establishment: Success	C01	UEs supporting FDD.
8.1.4.2	RRC / RRC Connection Re-Establishment: Success after T301 timeout (T314 and T315 are running)	C01	UEs supporting FDD.
8.1.4.3	RRC / RRC Connection Re-Establishment: Success after reception of invalid message (V301 is not greater than N301)	C01	UEs supporting FDD.
8.1.4.4	RRC / RRC Connection Re-Establishment: Failure after reception of invalid message (V301 is greater than N301)	C01	UEs supporting FDD.
8.1.4.5	RRC / RRC Connection Re-Establishment: Failure (Release)	C01	UEs supporting FDD.
8.1.4.6	RRC / RRC Connection Re-Establishment: Failure (T315=0, T314=0)	C01	UEs supporting FDD.
8.1.4.7	RRC / RRC Connection Re-Establishment: Failure (T314=0, T315>0 and radio link failure)	C01	UEs supporting FDD.
8.1.4.8	RRC / RRC Connection Re-Establishment: Failure (T314>0, T315=0 and radio link failure)	C01	UEs supporting FDD.
8.1.4.9	RRC / RRC Connection Re-Establishment: Failure (T314 is timeout, T315=0)	C01	UEs supporting FDD.
8.1.4.10	RRC / RRC Connection Re-Establishment: Failure (T315 is timeout, T314=0)	C01	UEs supporting FDD.
8.1.4.11	RRC / RRC Connection Re-Establishment: Success (Unrecoverable error in RLC)	C01	UEs supporting FDD.
8.1.5.1	RRC / UE Capability: Success	C01	UEs supporting FDD.

Clause	Title	Applicability	Comments
8.1.5.2	RRC / UE Capability: Success after T304 timeout	C01	UEs supporting FDD.
8.1.5.3	RRC / UE Capability: Failure (After (N304+1) re-transmissions)	C01	UEs supporting FDD.
8.1.6.1	Direct Transfer in CELL_DCH state (invalid message reception)	C01	UEs supporting FDD.
8.1.6.2	Direct Transfer in CELL_FACH state (invalid message reception)	C01	UEs supporting FDD.
8.1.7	RRC / Security mode control	C07	UEs supporting FDD and supporting UMTS Encryption Algorithm UEA1.
8.2.1.1	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Data integrity protection algorithm is not applied)	C01	UEs supporting FDD.
8.2.1.2	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Effected Data integrity protection algorithm)	C08	UEs supporting FDD and supporting UMTS Integrity Algorithm UIA1.
8.2.1.3	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.1.4	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	C01	UEs supporting FDD.
8.2.1.5	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	C01	UEs supporting FDD.
8.2.1.6	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous configuration)	C01	UEs supporting FDD.
8.2.1.7	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.1.8	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.9	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.10	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Physical channel Failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.11	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.12	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.13	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.14	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.15	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.16	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.17	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.18	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.19	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.20	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.1.21	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.1.22	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.1	RRC / Radio Bearer Reconfiguration (Hard Handover) from CELL_DCH to CELL_DCH: Success	C01	UEs supporting FDD.
8.2.2.2	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.2.3	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C01	UEs supporting FDD.
8.2.2.4	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C01	UEs supporting FDD.
8.2.2.5	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C01	UEs supporting FDD.
8.2.2.6	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.2.7	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Suspension of signalling bearer)	C01	UEs supporting FDD.
8.2.2.8	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.9	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Unsupported Configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.10	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.11	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.12	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.13	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Suspension of signalling bearer)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.14	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.15	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.16	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.17	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.18	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.19	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.20	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Suspension of signalling bearer)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.21	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.22	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.23	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.24	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.2.25	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.2.26	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Failure (Suspension of signalling bearer)	C01	UEs supporting FDD.
8.2.3.1	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	C01	UEs supporting FDD.
8.2.3.2	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.3.3	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C01	UEs supporting FDD.
8.2.3.4	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C01	UEs supporting FDD.
8.2.3.5	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C01	UEs supporting FDD.
8.2.3.6	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.3.7	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.8	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.9	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.10	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.11	RRC / Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.12	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.13	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.14	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.15	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.16	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.17	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.18	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.19	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.20	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.3.21	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.1	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH (Hard handover to intra-frequency): Success with no transport channel type switching	C01	UEs supporting FDD.
8.2.4.2	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)	C01	UEs supporting FDD.

Clause	Title	Applicability	Comments
8.2.4.3	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C01	UEs supporting FDD.
8.2.4.4	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C01	UEs supporting FDD.
8.2.4.5	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C01	UEs supporting FDD.
8.2.4.6	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.4.7	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.8	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.9	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.10	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.11	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.12	RRC / Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.13	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.14	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.15	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old channel)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.16	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.17	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.18	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.19	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success with no transport channel type switching	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.20	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.21	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.22	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.4.23	RRC / Transport channel reconfiguration from CELL_FACH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.5.1	RRC / Transport format combination Control in CELL_DCH: restriction	C01	UEs supporting FDD.
8.2.5.2	RRC / Transport format combination Control in CELL_DCH: release a restriction	C01	UEs supporting FDD.
8.2.5.3	RRC / Transport format combination Control in CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C01	UEs supporting FDD.
8.2.5.4	RRC / Transport format combination Control in CELL_DCH: Failure (Invalid message reception)	C01	UEs supporting FDD.



Clause	Title	Applicability	Comments
8.2.6.1	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Success	C01	UEs supporting FDD.
8.2.6.2	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Unsupported configuration)	C01	UEs supporting FDD.
8.2.6.3	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion to old channel)	C01	UEs supporting FDD.
8.2.6.4	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion failure)	C01	UEs supporting FDD.
8.2.6.5	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Incompatible simultaneous reconfiguration)	C01	UEs supporting FDD.
8.2.6.6	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Invalid message reception)	C01	UEs supporting FDD.
8.2.6.7	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.8	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.9	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.10	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.11	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.12	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.13	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.14	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.15	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.16	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.17	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.18	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Success	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.19	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Unsupported configuration)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.20	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Physical channel failure)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.6.21	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Incompatible simultaneous reconfiguration)	C06	UEs supporting FDD and supporting PS bearer service.

Clause	Title	Applicability	Comments
8.2.6.22	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Invalid message reception)	C06	UEs supporting FDD and supporting PS bearer service.
8.2.7	RRC / Physical Shared Channel Allocation [TDD only]	[FFS]	Inclusion of this test cases if FFS
8.2.8	RRC / PUSCH capacity request [TDD only]	[FFS]	Inclusion of this test cases if FFS
8.2.9.1	RRC / Downlink outer loop control: Increase is Disallowed	C01	UEs supporting FDD.
8.2.9.2	RRC / Downlink outer loop control: Increase is Allowed	C01	UEs supporting FDD.
8.2.9.3	RRC / Downlink outer loop control: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.3.1.1	RRC / Cell Update: cell reselection in CELL_FACH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.2	RRC / Cell Update: cell reselection in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.3	RRC / Cell Update: periodical cell update in CELL_FACH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.4	RRC / Cell Update: periodical cell update in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.5	RRC / Cell Update: UL data transmission in URA_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.6	RRC / Cell Update: UL data transmission in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.7	RRC / Cell Update: paging response in URA_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.8	RRC / Cell Update: paging response in CELL_PCH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.9	RRC / Cell Update: re-entering of service area after T305 expiry and being out of service area	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.10	RRC / Cell Update: expiry of T307 after T305 expiry and being out of service area	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.11	RRC / Cell Update: Success after T302 time-out	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.12	RRC / Cell Update: Failure (After Maximum Retransmissions)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.13	RRC / Cell Update: Reception of Invalid CELL_UPDATE_CONFIRM message	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.14	RRC / Cell Update: Radio Bearer Control for Transition from CELL_DCH to CELL_FACH	C06	UEs supporting FDD and supporting PS bearer service.
8.3.1.15	RRC / Cell Update: Acknowledged Mode RLC Reset	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.1	RRC / URA Update: URA reselection	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.2	RRC / URA Update: periodical URA update	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.3	RRC / URA Update: re-entering of service area after T306 expiry	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.4	RRC / URA Update: loss of service after expiry of timers T307 after T306	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.5	RRC / URA Update: Success after Confirmation error of URA-ID list	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.6	RRC / URA Update: Failure (V303 is greater than N303: Confirmation error of URA-ID list)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.7	RRC / URA Update: Success after T303 timeout	C06	UEs supporting FDD and supporting PS bearer service.
8.3.2.8	RRC / URA Update: Failure (V303 is greater than N303: T303 timeout)	C06	UEs supporting FDD and supporting PS bearer service.
8.3.3.1	RRC / RNTI reallocation: Success	C01	UEs supporting FDD.
8.3.3.2	RRC / RNTI reallocation: Failure (Invalid message reception)	C01	UEs supporting FDD.
8.3.4.1	RRC / Active set update in soft handover: Radio Link addition	C01	UEs supporting FDD.
8.3.4.2	RRC / Active set update in soft handover: Radio Link removal	C01	UEs supporting FDD.
8.3.4.3	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is not full)	C01	UEs supporting FDD.
8.3.4.4	RRC / Active set update in soft handover: Unsupported Configuration in the UE	C01	UEs supporting FDD.
8.3.4.5	RRC / Active set update in soft handover: Combined radio link addition and removal (active set is full)	C01	UEs supporting FDD.

Clause	Title	Applicability	Comments
8.3.4.6	RRC / Active set update in soft handover: Incompatible simultaneous reconfiguration	C01	UEs supporting FDD.
8.3.4.7	RRC / Active set update in soft handover: Invalid Message Reception	C01	UEs supporting FDD.
8.3.5.1	RRC / Hard Handover: success	[FFS]	Inclusion of this test case is FFS
8.3.5.2	RRC / Hard Handover: Unsupported Configuration in the UE	[FFS]	Inclusion of this test case is FFS
8.3.5.3	RRC / Hard Handover: Physical channel failure	[FFS]	Inclusion of this test case is FFS
8.3.6	RRC / Inter system hard handover to UTRAN	[FFS]	Inclusion of this test case is FFS
8.3.7	RRC / Inter system hard handover from UTRAN	[FFS]	Inclusion of this test case is FFS
8.3.8	RRC / Inter system cell reselection to UTRAN	[FFS]	Inclusion of this test case is FFS
8.3.9	RRC / Inter system cell reselection from UTRAN	[FFS]	Inclusion of this test case is FFS
8.4.1.1	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state	C01	UEs supporting FDD.
8.4.1.2	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state	C01	UEs supporting FDD.
8.4.1.3	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state	C01	UEs supporting FDD.
8.4.1.4	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_FACH state	C01	UEs supporting FDD.
8.4.1.5	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.6	RRC / Measurement Control and Report: Inter-frequency measurement for transition from CELL_DCH to CELL_FACH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.7	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_FACH to CELL_DCH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.8	RRC / Measurement Control and Report: Inter-frequency measurement for transition from CELL_FACH to CELL_DCH state	C06	UEs supporting FDD and supporting PS bearer service.
8.4.1.9	RRC / Measurement Control and Report: Unsupported measurement in the UE	C09	UEs supporting FDD and not supporting Inter-system measurement for GSM.
8.4.1.10	RRC / Measurement Control and Report: Failure (Invalid Message Reception)	C01	UEs supporting FDD.
<b>MOBILITY MANAGEMENT</b>			
9.1	TMSI reallocation	[FFS]	[FFS]
9.2.1	Authentication accepted	[FFS]	[FFS]
9.2.2	Authentication rejected	[FFS]	[FFS]
9.3.1	General Identification	[FFS]	[FFS]
9.3.2	Handling of IMSI shorter than the maximum length	[FFS]	[FFS]
9.4.1	Location updating / accepted	[FFS]	[FFS]
9.4.2.1	Location updating / rejected / IMSI invalid	[FFS]	[FFS]
9.4.2.2	Location updating / rejected / PLMN not allowed	[FFS]	[FFS]
9.4.2.3	Location updating / rejected / location area not allowed	[FFS]	[FFS]
9.4.2.4	Location updating / rejected / roaming not allowed in this location area	[FFS]	[FFS]
9.4.3.1	Location updating / abnormal cases / random access fails	[FFS]	[FFS]
9.4.3.2	Location updating / abnormal cases / attempt counter less or equal to 4, LAI different	[FFS]	[FFS]
9.4.3.3	Location updating / abnormal cases / attempt counter equal to 4	[FFS]	[FFS]
9.4.3.4	Location updating / abnormal cases / attempt counter less or equal to 4, stored LAI equal to broadcast LAI	[FFS]	[FFS]
9.4.4	Location updating / release / expiry of T3240	[FFS]	[FFS]
9.4.5.1	Location updating / periodic spread	[FFS]	[FFS]
9.4.5.2	Location updating / periodic normal / test 1	[FFS]	[FFS]
9.4.5.3	Location updating / periodic normal / test 2	[FFS]	[FFS]
9.4.5.4.1	Location updating / periodic HPLMN search / UE waits time T	[FFS]	[FFS]
9.4.5.4.2	Location updating / periodic HPLMN search / UE in manual mode	[FFS]	[FFS]
9.4.5.4.3	Location updating / periodic HPLMN search / UE waits at least two minutes and at most T minutes	[FFS]	[FFS]

Clause	Title	Applicability	Comments
9.4.6	Location updating / interworking of attach and periodic	[FFS]	[FFS]
9.5.2	MM connection / establishment with cipher	[FFS]	[FFS]
9.5.3	MM connection / establishment without cipher	[FFS]	[FFS]
9.5.4	MM connection / establishment rejected	[FFS]	[FFS]
9.5.5	MM connection / establishment rejected cause 4	[FFS]	[FFS]
9.5.6	MM connection / expiry T3230	[FFS]	[FFS]
9.5.7.1	MM connection / abortion by the network / cause #6	[FFS]	[FFS]
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	[FFS]	[FFS]
9.5.8.1	MM connection / follow-on request pending / test 1	[FFS]	[FFS]
9.5.8.2	MM connection / follow-on request pending / test 2	[FFS]	[FFS]
9.5.8.3	MM connection / follow-on request pending / test 3	[FFS]	[FFS]
<b>CALL CONTROL</b>			
10.1.2.1.1	Outgoing call / U0 null state / MM connection requested	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.1	Outgoing call / U0.1 MM connection pending / CM service rejected	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.2	Outgoing call / U0.1 MM connection pending / CM service accepted	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.2.3	Outgoing call / U0.1 MM connection pending / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.3	Outgoing call / U1 call initiated / T303 expiry	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.4	Outgoing call / U1 call initiated / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.5	Outgoing call / U1 call initiated / receiving ALERTING	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.6	Outgoing call / U1 call initiated / entering state U10	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.3.7	Outgoing call / U1 call initiated / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.1	Outgoing call / U3 UE originating call proceeding / ALERTING received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.2	Outgoing call / U3 UE originating call proceeding / CONNECT received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.3	Outgoing call / U3 UE originating call proceeding / PROGRESS received without in band information	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.4	Outgoing call / U3 UE originating call proceeding / PROGRESS with in band information	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.5	Outgoing call / U3 UE originating call proceeding / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.6	Outgoing call / U3 UE originating call proceeding / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.7	Outgoing call / U3 UE originating call proceeding / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.8	Outgoing call / U3 UE originating call proceeding / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.9	Outgoing call / U3 UE originating call proceeding / traffic channel allocation	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.10	Outgoing call / U3 UE originating call proceeding / timer T310 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.11	Outgoing call / U3 UE originating call proceeding / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.12	Outgoing call / U3 UE originating call proceeding / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.4.13	Outgoing call / U3 UE originating call proceeding / Internal alerting indication	C13	UEs supporting mobile originated circuit switched basic service for telephony
10.1.2.5.1	Outgoing call / U4 call delivered / CONNECT received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.2	Outgoing call / U4 call delivered / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.3	Outgoing call / U4 call delivered / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service

Clause	Title	Applicability	Comments
10.1.2.5.4	Outgoing call / U4 call delivered / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.5	Outgoing call / U4 call delivered / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.6	Outgoing call / U4 call delivered / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.7	Outgoing call / U4 call delivered / traffic channel allocation	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.5.8	Outgoing call / U4 call delivered / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.1	U10 call active / termination requested by the user	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.2	U10 call active / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.3	U10 call active / DISCONNECT with in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.4	U10 call active / DISCONNECT without in band tones	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.5	U10 call active / RELEASE COMPLETE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.6.6	U10 call active / SETUP received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.1	U11 disconnect request / clear collision	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.2	U11 disconnect request / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.3	U11 disconnect request / timer T305 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.4	U11 disconnect request / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.7.5	U11 disconnect request / unknown message received	C10	UEs supporting at least one mobile originated circuit switched basic service
10.1.2.8.1	U12 disconnect indication / call releasing requested by the user	C13	UEs supporting bearer capability for speech.= UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.2	U12 disconnect indication / RELEASE received	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.3	U12 disconnect indication / lower layer failure	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.8.4	U12 disconnect indication / unknown message received	C13	UEs supporting bearer capability for speech. = UE supporting mobile originated circuit switched basic service for telephony
10.1.2.9.1	Outgoing call / U19 release request / timer T308 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.2	Outgoing call / U19 release request / 2 <sup>nd</sup> timer T308 time-out	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.3	Outgoing call / U19 release request / RELEASE received	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.4	Outgoing call / U19 release request / RELEASE COMPLETE received	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.2.9.5	Outgoing call / U19 release request / lower layer failure	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.1.3.1.1	Incoming call / U0 null state / SETUP received with a non supported bearer capability	R	All UEs.
10.1.3.2.1	Incoming call / U6 call present / automatic call rejection	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.3.2	Incoming call / U9 mobile terminating call confirmed / DTCH assignment	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.3	Incoming call / U9 mobile terminating call confirmed / termination requested by the user	C41	UEs supporting at least one MT circuit switched basic service for which immediate connection is not used

Clause	Title	Applicability	Comments
10.1.3.3.4	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.5	Incoming call / U9 mobile terminating call confirmed / RELEASE received	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.6	Incoming call / U9 mobile terminating call confirmed / lower layer failure	C41	UEs supporting at least one MT circuit switched basic service, for which immediate connect is not used.
10.1.3.3.7	Incoming call / U9 mobile terminating call confirmed / unknown message received	C41	UEs supporting at least MT circuit switched basic service, for which immediate connect is not used.
10.1.3.4.1	Incoming call / U7 call received / call accepted	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.2	Incoming call / U7 call received / termination requested by the user	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.3	Incoming call / U7 call received / DISCONNECT received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.4	Incoming call / U7 call received / RELEASE received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.5	Incoming call / U7 call received / lower layer failure	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.6	Incoming call / U7 call received / unknown message received	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.7	Incoming call / U7 call received / DTCH assignment	C41	UEs supporting at least one mobile terminating circuit switched basic service for which immediate connect is not used.
10.1.3.4.8	Incoming call / U7 call received / RELEASE COMPLETE received	C41	UEs supporting at least one mobile terminating circuit switched basic service, for which immediate connect is not used.
10.1.3.5.1	Incoming call / U8 connect request / CONNECT acknowledged	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.2	Incoming call / U8 connect request / timer T313 time-out	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.3	Incoming call / U8 connect request / termination requested by the user	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.4	Incoming call / U8 connect request / DISCONNECT received with in-band information	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.5	Incoming call / U8 connect request / DISCONNECT received without in-band information	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.6	Incoming call / U8 connect request / RELEASE received	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.7	Incoming call / U8 connect request / lower layer failure	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.8	Incoming call / U8 connect request / DTCH assignment	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.3.5.9	Incoming call / U8 connect request / unknown message received	C11	UEs supporting at least one mobile terminating circuit switched basic service.

Clause	Title	Applicability	Comments
10.1.4.1.1	In-call functions / DTMF information transfer / basic procedures	C13	UEs supporting any equipment supporting bearer capability for speech= UE supporting mobile originated circuit switched basic service for telephony
10.1.4.2.1	In-call functions / User notification / UE terminated	C14	UEs supporting at least one circuit switched basic service.
10.1.4.3.1	In-call functions / channel changes / a successful channel change in active state/ Handover and Assignment Command	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.4.3.2	In-call functions / channel changes / an unsuccessful channel change in active mode/ Handover and Assignment Command	C11	UEs supporting at least one mobile terminating circuit switched basic service.
10.1.4.4.1	In-call functions / MS terminated in-call modification / modify when new mode is not supported	C14	UEs supporting at least one circuit switched basic service.
10.1.4.5.1	In-call functions / MS originated in-call modification / a successful case of modifying	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.2	In-call functions / MS originated in-call modification / modify rejected	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.3	In-call functions / MS originated in-call modification / an abnormal case of acceptance	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.4	In-call functions / MS originated in-call modification / an abnormal case of rejection	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.5	In-call functions / MS originated in-call modification / time-out of timer T323	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.6	In-call functions / MS originated in-call modification / a successful channel change in state mobile originating modify	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.7	In-call functions / MS originated in-call modification / an unsuccessful channel change in state mobile originating modify	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.8	In-call functions / MS originated in-call modification / unknown message received	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.1.4.5.9	In-call functions / MS originated in-call modification / a release complete received	C15	UEs supporting any dual mode bearer capability service (Teleservice 61 - Alternate Speech/Group 3 fax)
10.2.1	Call Re-establishment/call present, re-establishment allowed	C16	UEs supporting at least one bearer capability.
10.2.2	Call Re-establishment/call under establishment, transmission stopped	C10	UEs supporting at least one mobile originated circuit switched basic service.
10.3	User to user signalling	C11	UEs supporting at least one mobile terminating circuit switched basic service.
<b>SESSION MANAGEMENT</b>			
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the QoS Requested	C12	UE supporting PS domain services.
11.1.1.2.1	QoS offered by the network is a lower QoS / QoS accepted by UE	C12	UE supporting PS domain services.
11.1.1.2.2	QoS offered by the network is a lower QoS / QoS rejected by UE	C12	UE supporting PS domain services. This test may not be applicable to the UEs which support all QoS and it is not possible to configure the UE to reject any QoS.
11.1.2	PDP context activation requested by the network, successful and unsuccessful	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.3.1	Abnormal Cases / T3380 Expiry	C12	UE supporting PS domain services.
11.1.3.2	Abnormal Cases / Collision of UE initiated and network requested PDP context activation	C17	UE supporting PS domain services configured in such a way that one or more PDP contexts can be active simultaneously.
11.1.4.1	Secondary PDP context activation procedure, successful and unsuccessful	C12	UE supporting PS domain services.

Clause	Title	Applicability	Comments
11.1.4.2.1	Abnormal cases/Expiry of Timers	C12	UE supporting PS domain services.
11.1.4.2.2	UE initiated secondary PDP context activation for an already activated secondary PDP context (on the network side)	C12	UE supporting PS domain services.
11.2.1	Network initiated PDP context modification	C12	UE supporting PS domain services.
11.2.2	UE initiated PDP context modification	C12	UE supporting PS domain services.
11.2.3.1	Abnormal Cassec/T3381 expiry	C12	UE supporting PS domain services.
11.2.3.2	Collision of UE and network initiated PDP context modification procedures	C12	UE supporting PS domain services.
11.3.1	PDP context deactivation initiated by the UE	C12	UE supporting PS domain services.
11.3.2	PDP context deactivation initiated by the network	C12	UE supporting PS domain services.
11.3.3.1	Abnormal cases / T3390 Expiry	C12	UE supporting PS domain services.
11.3.3.2	Abnormal cases / Collision of UE and network initiated PDP context deactivation requests	C12	UE supporting PS domain services.
11.4.1	Error cases	C12	UE supporting PS domain services.
<b>PACKET SWITCHED MOBILITY MANAGEMENT</b>			
12.2.1.1	PS attach / accepted	[FFS]	[FFS]
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	[FFS]	[FFS]
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	[FFS]	[FFS]
12.2.1.4	PS attach / rejected / PLMN not allowed	[FFS]	[FFS]
12.2.1.5	PS attach / rejected / roaming not allowed in this location area	[FFS]	[FFS]
12.2.1.6	PS attach / abnormal cases / access barred due to access class control	[FFS]	[FFS]
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	[FFS]	[FFS]
12.2.1.8	PS attach / abnormal cases / power off	[FFS]	[FFS]
12.2.1.9	PS attach / abnormal cases / PS detach procedure collision	[FFS]	[FFS]
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	[FFS]	[FFS]
12.2.2.2	Combined PS attach / PS only attach accepted	[FFS]	[FFS]
12.2.2.3	Combined PS attach / PS attach while IMSI attach	[FFS]	[FFS]
12.2.2.4	Combined PS attach / rejected / IMSI invalid / illegal ME	[FFS]	[FFS]
12.2.2.5	Combined PS attach / rejected / PS services and non-PS services not allowed	[FFS]	[FFS]
12.2.2.6	Combined PS attach / rejected / PS services not allowed	[FFS]	[FFS]
12.2.2.7	Combined PS attach / rejected / location area not allowed	[FFS]	[FFS]
12.2.2.8	Combined PS attach / abnormal cases / attempt counter check / miscellaneous reject causes	[FFS]	[FFS]
12.2.2.9	Combined PS attach / abnormal cases / PS detach procedure collision	[FFS]	[FFS]
12.3.1.1	PS detach / power off / accepted	[FFS]	[FFS]
12.3.1.2	PS detach / accepted	[FFS]	[FFS]
12.3.1.3	PS detach / abnormal cases / attempt counter check / procedure timeout	[FFS]	[FFS]
12.3.1.4	PS detach / abnormal cases / GMM common procedure collision	[FFS]	[FFS]
12.3.1.5	PS detach / power off / accepted	[FFS]	[FFS]
12.3.1.6	PS detach / accepted / PS/IMSI detach	[FFS]	[FFS]
12.3.1.7	PS detach / accepted / IMSI detach	[FFS]	[FFS]
12.3.1.8	PS detach / abnormal cases / change of cell into new routing area	[FFS]	[FFS]
12.3.1.9	PS detach / abnormal cases / PS detach procedure collision	[FFS]	[FFS]
12.3.2.1	PS detach / re-attach not required / accepted	[FFS]	[FFS]
12.3.2.2	PS detach / rejected / IMSI invalid / PS services not allowed	[FFS]	[FFS]
12.3.2.3	PS detach / IMSI detach / accepted	[FFS]	[FFS]
12.3.2.4	PS detach / re-attach requested / accepted	[FFS]	[FFS]
12.3.2.5	PS detach / rejected / location area not allowed	[FFS]	[FFS]
12.4.1.1	Routing area updating / accepted	[FFS]	[FFS]
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	[FFS]	[FFS]
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network	[FFS]	[FFS]



Clause	Title	Applicability	Comments
12.4.1.4	Routing area updating / rejected / location area not allowed	[FFS]	[FFS]
12.4.1.5	Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	[FFS]	[FFS]
12.4.1.6	Routing area updating / abnormal cases / change of cell into new routing area	[FFS]	[FFS]
12.4.1.7	Routing area updating / abnormal cases / change of cell during routing area updating procedure	[FFS]	[FFS]
12.4.1.8	Routing area updating / abnormal cases / P-TMSI reallocation procedure collision	[FFS]	[FFS]
12.4.2.1	Combined routing area updating / combined RA/LA accepted	[FFS]	[FFS]
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	[FFS]	[FFS]
12.4.2.3	Combined routing area updating / RA only accepted	[FFS]	[FFS]
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	[FFS]	[FFS]
12.4.2.5	Combined routing area updating / rejected / roaming not allowed in this location area	[FFS]	[FFS]
12.4.2.6	Combined routing area updating / abnormal cases / access barred due to access class control	[FFS]	[FFS]
12.4.2.7	Combined routing area updating / abnormal cases / attempt counter check / procedure timeout	[FFS]	[FFS]
12.4.2.8	Combined routing area updating / abnormal cases / change of cell into new routing area	[FFS]	[FFS]
12.4.2.9	Combined routing area updating / abnormal cases / change of cell during routing area updating procedure	[FFS]	[FFS]
12.4.2.10	Combined routing area updating / abnormal cases / PS detach procedure collision	[FFS]	[FFS]
12.4.3.1	Periodic routing area updating / accepted	[FFS]	[FFS]
12.4.3.2	Periodic routing area updating / accepted / T3312 default value	[FFS]	[FFS]
12.4.3.3	Periodic routing area updating / no cell available / network mode I	[FFS]	[FFS]
12.4.3.4	Combined periodic routing area updating / no cell available	[FFS]	[FFS]
12.5	P-TMSI reallocation	[FFS]	[FFS]
12.6.1.1	Authentication accepted	[FFS]	[FFS]
12.6.1.2	Authentication rejected	[FFS]	[FFS]
12.6.2.1	Ciphering mode / start ciphering	[FFS]	[FFS]
12.6.2.2	Ciphering mode / stop ciphering	[FFS]	[FFS]
12.6.2.3	Ciphering mode / IMEISV request	[FFS]	[FFS]
12.7.1	General Identification	[FFS]	[FFS]
12.8	GMM READY timer handling	[FFS]	[FFS]
	GENERAL TESTS	[FFS]	[FFS]
13.2.1.1	Emergency call / with USIM / accept case	[FFS]	UEs supporting narrow band speech (AMR)
13.2.2.1	Emergency call / without USIM / accept case	[FFS]	UEs supporting narrow band speech (AMR)
13.2.2.2	Emergency call / without USIM / reject case	[FFS]	UEs supporting narrow band speech (AMR)
<b>RADIO BEARER SERVICES</b>			
	<b>Combinations on DPCH</b>		
14.2.1	Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH	C42	UEs supporting DL 32 kbps class or higher; and UL 32 kbps class or higher.

Clause	Title	Applicability	Comments
			See Note 1
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UEs supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH	C43	UE supporting Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and

Clause	Title	Applicability	Comments
			DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	C44	UE supporting CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C45	UE supporting CS or PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.18	Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C46	UE supporting PS bearer services; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.19	Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C47	UE supporting PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher.  See Note 1.
14.2.20	Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C48	UE supporting PS bearer services; and Streaming traffic class; and DL 384 kbps class or higher; and UL 32 kbps class or higher.  See Note 1.
14.2.21	Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C49	UEs supporting PS bearer services; and Streaming traffic class; and DL 32 kbps class or higher; and UL 384 kbps class or higher.  See Note 1
14.2.22	Streaming / unknown / UL:0 DL:384 kbps / CS or	C50	UE supporting

Clause	Title	Applicability	Comments
	PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		PS bearer services; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher.  See Note 1
14.2.23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH /10 ms TTI	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH /20 ms TTI	C51	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.24	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C52	UE supporting PS bearer services; and Interactive or background traffic class; and DL 32 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.25	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C53	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C54	UE supporting PS bearer services; and Interactive or background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C55	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 128 kbps class or higher.  See Note 1
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C55	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C56	UE supporting PS bearer services; and Interactive or background traffic class; and DL 128 kbps class or higher; and

Clause	Title	Applicability	Comments
			UL 128 kbps class or higher. See Note 1
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	C57	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	C60	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher. See Note 1
14.2.33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C58	UE supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.33.2	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C61	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 128 kbps class or higher. See Note 1
14.2.34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C59	UEs supporting PS bearer services; and Interactive or background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher. See Note 1
14.2.34.2	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C62	UE supporting PS bearer services; and Interactive or background traffic class; and DL 768 kbps class or higher; and UL 768 kbps class or higher. See Note 1
14.2.35.1	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher. See Note 1

Clause	Title	Applicability	Comments
14.2.35.2	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C63	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher.  See Note 1
14.2.36	Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C64	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher.  See Note 1
14.2.37.1	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	C65	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 384 kbps class or higher.  See Note 1
14.2.37.2	Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	C66	UE supporting PS bearer services; and Interactive or background traffic class; and DL 2048 kbps class; and UL 768 kbps class.  See Note 1
14.2.38	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	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.39	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	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.40	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	C67	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.41	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	C68	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 128 kbps class or higher; and UL 64 kbps class or higher.  See Note 1

Clause	Title	Applicability	Comments
14.2.42	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	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.43.1	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 / 10 ms TTI	C69	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.43.2	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 / 20 ms TTI	C70	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.44	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C71	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 128 kbps class or higher.  See Note 1
14.2.45	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	C72	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer service; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.46	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C73	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS) or Simultaneous CS and PS bearer services; and Conversational traffic class; and Streaming traffic class; and DL 64 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.47	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C74	UE supporting Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 128 kbps class or higher; and UL 32 kbps class or higher.  See Note 1
14.2.48	Conversational / speech / UL:12.2 DL:12.2 kbps	C75	UE supporting

Clause	Title	Applicability	Comments
	/ CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Narrow band speech (AMR); and CS bearer service; and Multicall (2xCS); and Conversational traffic class; and Streaming traffic class; and DL 2048 kbps class; and UL 32 kbps class or higher.  See Note 1
14.2.49	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	C76	UE supporting Multicall (2xCS); and Narrow band speech (AMR); and CS bearer services; and Conversational traffic class; and DL 64 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.50	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	C77	UE supporting Multicall (2xCS); and CS bearer service; and Conversational traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher.  See Note 1
14.2.51	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	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher.  See Note 1
14.2.52	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	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher.  See Note 1
14.2.53	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	C78	UE supporting Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 384 kbps class or higher.  See Note 1
14.2.54	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C79	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 384 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
14.2.55	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C80	UE supporting PS bearer services; and Streaming traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  See Note 1
	<b>Combinations on PDSCH and DPCH</b>		



Clause	Title	Applicability	Comments
14.3.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.  See Note 1
14.3.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C81	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.  See Note 1
14.3.3	Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	C87	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher.  See Note 1
14.3.4	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	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.  See Note 1
14.3.5	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	C82	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 768 kbps class or higher; and UL 64 kbps class or higher.  Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class.  See Note 1
14.3.6	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	C83	UE supporting Narrow band speech (AMR); and Simultaneous CS and PS bearer services; and Conversational traffic class; and Interactive or Background traffic class; and DL 2048 kbps class; and UL 64 kbps class or higher.  See Note 1
	<b>Combinations on SCCPCH</b>		
14.4.1	Stand-alone signalling RB for PCCH	C84	UE supporting DL 32 kbps class or higher.

Clause	Title	Applicability	Comments
			See Note 1
14.4.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher.  See Note 1
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	C85	UE supporting PS bearer services; and Interactive or Background traffic class; and DL 32 kbps class or higher.  See Note 1
	<b>Combinations on PRACH</b>		
14.5.1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	C86	UE supporting PS bearer services; and Interactive or Background traffic class; and UL 32 kbps class or higher.  See Note 1
<b>SMS</b>			
16.1.1	SMS on CS mode / SMS mobile terminated	C18	UE capable of receiving Short Message at any time on CS mode.
16.1.2	SMS on CS mode / SMS mobile originated	C20	UE capable of submitting Short Message at any time on CS mode.
16.1.3	SMS on CS mode / Test of memory full condition and memory available notification	C21	UE capable of sending the correct acknowledgement of memory full condition on CS mode.
16.1.4	SMS on CS mode / Test of the status report capabilities and of SMS-COMMAND	C22	UEs supporting the status report capabilities on CS mode.
16.1.5.1	SMS on CS mode / Short message class 0	C23	UE capable of displaying short messages on CS mode
16.1.5.2	SMS on CS mode / Test of class 1 short messages	C24	UE capable of displaying short messages and storing of received Class 1 Short Messages on CS mode
16.1.5.3	SMS on CS mode / Test of class 2 short messages	C25	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM on CS mode.
16.1.5.4	SMS on CS mode / Test of class 3 short messages	[FFS]	[FFS]
16.1.6	SMS on CS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.1.7	SMS on CS mode / Test of the replace mechanism for SM type 1-7	C33	UEs which support Replace Short Messages and display of received Short Messages on CS mode.
16.1.8	SMS on CS mode / Test of the reply path scheme	C34	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages on CS mode.
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	C35	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress on CS mode.
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	C36	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress on CS mode.
16.2.1	SMS on PS mode / SMS mobile terminated	C26	UE capable of receiving Short Message at any time on PS mode.
16.2.2	SMS on PS mode / SMS mobile originated	C27	UE capable of submitting Short Message at any time on PS mode.
16.2.3	SMS on PS mode / Test of memory full condition and memory available notification	C28	UE capable of sending the correct acknowledgement of memory full condition in PS mode.
16.2.4	SMS on PS mode / Test of the status report capabilities and of SMS-COMMAND	C29	UEs supporting the status report capabilities in PS mode.

Clause	Title	Applicability	Comments
16.2.5.1	Short message class 0	C30	UE capable of displaying short messages in PS mode
16.2.5.2	SMS on PS mode / Test of class 1 short messages	C31	UE capable of displaying short messages and storing of received Class 1 Short Messages in PS mode
16.2.5.3	SMS on PS mode / Test of class 2 short messages	C32	UE capable of displaying short messages and storing of received Class 2 Short Messages in the SIM in PS mode.
16.2.5.4	SMS on PS mode / Test of class 3 short messages	[FFS]	[FFS]
16.2.6	SMS on PS mode / Test of short message type 0 (???)	[FFS]	[FFS]
16.2.7	SMS on PS mode / Test of the replace mechanism for SM type 1-7	C37	UEs which support Replace Short Messages and display of received Short Messages in PS mode.
16.2.8	SMS on PS mode / Test of the reply path scheme	C38	UEs which support reply procedures (the class of UEs for which this is mandatory is described in TS 23.040, annex 4) displaying of received Short Messages and submitting Short Messages in PS mode.
16.2.9.1	SMS on PS mode / Multiple SMS mobile originated / UE in idle mode	C39	UE supporting the ability of sending multiple short messages on the same RR connection when there is no call in progress in PS mode.
16.2.9.2	SMS on PS mode / Multiple SMS mobile originated / UE in active mode	C40	UE supporting the ability of sending concatenated multiple short messages when there is a call in progress in PS mode.
16.3	Short message service cell broadcast	R	All UEs.
<b>USER EQUIPMENT FEATURES</b>			
17.1.2	Constraining the access to a single number	[FFS]	All UEs supporting autocalling
17.1.3	Constraining the access to a single number	[FFS]	All UEs supporting autocalling
17.1.4	Behaviour of the MS when its list of blacklisted numbers is full	[FFS]	UEs that are capable of autocalling more than M B-party numbers.

C01 IF A.1/1 OR A.1/3 OR A.1/4 OR A.1/6 THEN R ELSE N/A  
 C02 IF A.1/2 OR A.1/3 OR A.1/5 OR A.1/6 THEN R ELSE N/A  
 C03 IF A.1/3 OR A.1/6 THEN R ELSE N/A  
 C04 IF A.1/1 AND A.2/1 THEN R ELSE N/A  
 C05 IF A.1/4 THEN R ELSE N/A  
 C06 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.3/2 THEN R ELSE N/A  
 C07 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/27 THEN R ELSE N/A  
 C08 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND A.20/28 THEN R ELSE N/A  
 C09 IF (A.1/1 OR A.1/3 OR A.1/4 OR A.1/6) AND NOT A.20/3 THEN R ELSE N/A  
 C10 IF A.20/4 THEN R ELSE N/A  
 C11 IF A.20/5 THEN R ELSE N/A  
 C12 IF A.3/2 THEN R ELSE N/A  
 C13 IF A.2/1 OR A.2/2 OR A.10/2 THEN R ELSE N/A  
 C14 IF A.20/4 OR A.20/5 THEN R ELSE N/A  
 C15 IF A.10/2 THEN R ELSE N/A  
 C16 IF A.20/1 THEN R ELSE N/A  
 C17 IF A.3/3 AND A.20/7 THEN R ELSE N/A  
 C18 IF A.2/3 THEN R ELSE N/A  
 C19 IF A.1/1 THEN R ELSE N/A  
 C20 IF A.2/4 THEN R ELSE N/A  
 C21 IF A.20/8 AND A.3/1 THEN R ELSE N/A  
 C22 IF A.20/9 AND A.3/1 THEN R ELSE N/A  
 C23 IF A.20/10 AND A.3/1 THEN R ELSE N/A  
 C24 IF A.20/11 AND A.3/1 THEN R ELSE N/A  
 C25 IF A.20/12 AND A.3/1 THEN R ELSE N/A  
 C26 IF A.2/5 THEN R ELSE N/A  
 C27 IF A.2/6 THEN R ELSE N/A  
 C28 IF A.20/8 AND A.3/2 THEN R ELSE N/A  
 C29 IF A.20/9 AND A.3/2 THEN R ELSE N/A  
 C30 IF A.20/10 AND A.3/2 THEN R ELSE N/A  
 C31 IF A.20/11 AND A.3/2 THEN R ELSE N/A  
 C32 IF A.20/12 AND A.3/2 THEN R ELSE N/A  
 C33 IF A.20/13 AND A.20/10 AND A.3/1 THEN R ELSE N/A  
 C34 IF A.20/14 AND A.20/10 AND A.2/4 AND A.3/1 THEN R ELSE N/A  
 C35 IF A.20/15 AND A.3/1 THEN R ELSE N/A  
 C36 IF A.20/16 AND A.3/1 THEN R ELSE N/A  
 C37 IF A.20/13 AND A.20/10 AND A.3/2 THEN R ELSE N/A  
 C38 IF A.20/14 AND A.20/10 AND A.2/6 THEN R ELSE N/A  
 C39 IF A.20/15 AND A.3/2 THEN R ELSE N/A  
 C40 IF A.20/16 AND A.3/2 THEN R ELSE N/A  
 C41 IF (NOT A.20/17) AND (NOT A.20/6) AND A.20/5 THEN R ELSE N/A  
 C42 IF A.17/1 AND A.18/1 THEN R ELSE N/A  
 C43 IF A.2/1 AND A.3/1 AND A.6/1 AND A.17/1 AND A.18/1 THEN R ELSE N/A  
 C44 IF A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C45 IF A.3/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C46 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A  
 C47 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/2 THEN R ELSE N/A  
 C48 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/4 AND A.18/1 THEN R ELSE N/A  
 C49 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/1 AND A.18/4 THEN R ELSE N/A  
 C50 IF (A.3/1 OR A.3/2) AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A  
 C51 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/1 THEN R ELSE N/A  
 C52 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 AND A.18/2 THEN R ELSE N/A  
 C53 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/1 THEN R ELSE N/A  
 C54 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C55 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A  
 C56 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/3 THEN R ELSE N/A  
 C57 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A  
 C58 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/3 THEN R ELSE N/A  
 C59 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A  
 C60 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A  
 C61 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/3 THEN R ELSE N/A  
 C62 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/5 THEN R ELSE N/A  
 C63 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 THEN R ELSE N/A  
 C64 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 THEN R ELSE N/A  
 C65 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/4 THEN R ELSE N/A  
 C66 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/5 THEN R ELSE N/A  
 C67 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C68 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/3 AND A.18/2 THEN R ELSE N/A  
 C69 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A

C70 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A  
 C71 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/3 THEN R ELSE N/A  
 C72 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C73 IF A.2/1 AND ((A.3/1 AND A.7/28) OR A.3/3) AND A.6/1 AND A.6/2 AND A.17/2 AND A.18/1 THEN R ELSE N/A  
 C74 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/3 AND A.18/1 THEN R ELSE N/A  
 C75 IF A.2/1 AND A.3/1 AND A.7/28 AND A.6/1 AND A.6/2 AND A.17/6 AND A.18/1 THEN R ELSE N/A  
 C76 IF A.7/28 AND A.2/1 AND A.3/1 AND A.6/1 AND A.17/2 AND A.18/2 THEN R ELSE N/A  
 C77 IF A.7/28 AND A.3/1 AND A.6/1 AND A.17/4 AND A.18/4 THEN R ELSE N/A  
 C78 IF A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/4 THEN R ELSE N/A  
 C79 IF (A.3/2 OR A.3/3) AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A  
 C80 IF A.3/2 AND A.6/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A  
 C81 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:  
 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN E ELSE N/A

C82 IF A.3/3 AND (A.6/3 OR A.6/4) AND A.17/5 AND A.18/2 THEN R ELSE N/A

Alternatively to DL 768 kbps class the test case may be applicable to DL 384 kbps class, then:  
 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/4 AND A.18/2 THEN R ELSE N/A

C83 IF A.2/1 AND A.3/3 AND A.6/1 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 THEN R ELSE N/A  
 C84 IF A.17/1 THEN R ELSE N/A  
 C85 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/1 THEN R ELSE N/A  
 C86 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.18/1 THEN R ELSE N/A  
 C87 IF A.3/2 AND (A.6/3 OR A.6/4) AND A.17/6 AND A.18/2 THEN R ELSE N/A

Note 1. See [40] TR 25.926 for definition of UE radio access reference combinations in uplink and downlink (UL xx kbps/DL xx kbps classes). See Annex B for mapping between reference radio bearer combinations and UE radio access reference combinations in uplink and downlink.

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## Annex A (normative): ICS proforma for 3<sup>rd</sup> Generation User Equipment

Notwithstanding the provisions of the copyright clause related to the text of the present document, 3GPP grants that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

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### A.1 Guidance for completing the ICS proforma

#### A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into subclauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc);

#### A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

##### Reference column

The reference column gives reference to the relevant 3GPP core specifications.

##### Comments column

This column is left blank for particular use by the reader of this specification.

##### References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table A.5.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

### A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different subclauses of the ICS proforma.

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## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Software configuration:

.....  
.....  
.....

### A.2.3 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....  
Facsimile number:

.....  
E-mail address:

.....  
Additional information:  
.....  
.....  
.....

## A.2.4 Client

Name:

.....  
Address:  
.....  
.....  
.....

Telephone number:

.....  
Facsimile number:

.....  
E-mail address:

.....  
Additional information:  
.....  
.....  
.....

## A.2.5 ICS contact person

Name:

.....  
Telephone number:

.....  
Facsimile number:  
.....



E-mail address:

.....

Additional information:

.....

.....

## A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

## A.4 ICS proforma tables

### A.4.1 UE Implementation Types

**Table A.1: UE Implementation Types**

Item	UE Implementation Types	Ref.	Comments
1	Single-mode FDD (DS)	21.904, 5	
2	Single-mode TDD	21.904, 5	
3	Dual-mode FDD (DS)/TDD	21.904, 5	
4	Dual-mode FDD (DS)/GSM	21.904, 5	
5	Dual-mode TDD/GSM	21.904, 5	
6	Tri-mode FDD(DS)/TDD/GSM	21.904, 5	

### A.4.2 UE Service Capabilities

#### A.4.2.1 3GPP Standardised UE Service Capabilities

##### A.4.2.1.1 Teleservices

**Table A.2: Teleservices**

Item	Teleservices	Ref.	Comments
1	Narrow band speech (AMR)	22.105, 6.4.1	
2	Emergency speech call	22.105, 6.4.2	
3	Short Message Service (SMS) MT over CS	22.105, 6.4.3 22.003, A.1.3.1	
4	Short Message Service (SMS) MO over CS	22.105, 6.4.3 22.003, A.1.3.2	
5	Short Message Service (SMS) MT over PS	22.105, 6.4.3 22.003, A.1.3.1	
6	Short Message Service (SMS) MO over PS	22.105, 6.4.3 22.003, A.1.3.2	
7	Cell Broadcast Service (CBS)	22.105, 6.4.4	

## A.4.2.1.2 Bearer Services

Table A.3: Definition of Bearer Services

Item	Definition of Bearer Services	Ref.	Comments
1	Circuit Switched	22.105, 5.1 22.002	
2	Packet Switched	22.105, 5.1 22.060	
3	PS and CS simultaneously		

Table A.4: Asynchronous General Bearer Services

Item	Asynchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	3.1 KhZ Audio Modem AutoBauding1	22.002, 3.1.1	
6	V.110 UDI 9600 bit/s	22.002, 3.1.2	
7	V.110 UDI 14400 bit/s	22.002, 3.1.2	
8	V.110 UDI 19200 bit/s	22.002, 3.1.2	
9	V.110 UDI 28800 bit/s	22.002, 3.1.2	
10	V.110 UDI 38400 bit/s	22.002, 3.1.2	
11	V.120 9600 bit/s	22.002, 3.1.4	
12	V.120 14400 bit/s	22.002, 3.1.4	
13	V.120 19200 bit/s	22.002, 3.1.4	
14	V.120 28800 bit/s	22.002, 3.1.4	
15	V.120 38400 bit/s	22.002, 3.1.4	
16	V.120 48000 bit/s	22.002, 3.1.4	
17	V.120 56000 bit/s	22.002, 3.1.4	
18	PIAFS 32000 bit/s	22.002, 3.1.6	
19	PIAFS 64000 bit/s	22.002, 3.1.6	
20	Frame Tunnelling Mode 56000 bit/s	22.002, 3.1.7	
21	Frame Tunnelling Mode 64000 bit/s	22.002, 3.1.7	

Note: The rates in the table refer to FNUR (Fixed Network User Rate).

**Table A.5: Synchronous General Bearer Services**

Item	Synchronous General Bearer Services	Ref.	Comments
1	3.1 kHz Audio 9600 bit/s	22.002, 3.1.1	
2	3.1 kHz Audio 14400 bit/s	22.002, 3.1.1	
3	3.1 kHz Audio 19200 bit/s	22.002, 3.1.1	
4	3.1 kHz Audio 28800 bit/s	22.002, 3.1.1	
5	V.110 UDI 28800 bit/s	22.002, 3.1.2	
6	V.110 UDI 48000 bit/s	22.002, 3.1.2	
7	V.110 UDI 56000 bit/s	22.002, 3.1.2	
8	X.31 Flag Stuffing UDI 9600 bit/s	22.002, 3.1.3	
9	X.31 Flag Stuffing UDI 14400 bit/s	22.002, 3.1.3	
10	X.31 Flag Stuffing UDI 19200 bit/s	22.002, 3.1.3	
11	X.31 Flag Stuffing UDI 28800 bit/s	22.002, 3.1.3	
12	X.31 Flag Stuffing UDI 38400 bit/s	22.002, 3.1.3	
13	X.31 Flag Stuffing UDI 48000 bit/s	22.002, 3.1.3	
14	X.31 Flag Stuffing UDI 56000 bit/s	22.002, 3.1.3	
15	V.120 9600 bit/s	22.002, 3.1.4	
16	V.120 14400 bit/s	22.002, 3.1.4	
17	V.120 19200 bit/s	22.002, 3.1.4	
18	V.120 28800 bit/s	22.002, 3.1.4	
19	V.120 38400 bit/s	22.002, 3.1.4	
20	V.120 48000 bit/s	22.002, 3.1.4	
21	V.120 56000 bit/s	22.002, 3.1.4	
22	Bit Transparent mode 56000 bit/s	22.002, 3.1.5	
23	Bit Transparent mode 64000 bit/s	22.002, 3.1.5	
24	Multimedia Call 28800 bit/s	22.002, 3.1.8	
25	Multimedia Call 32000 bit/s	22.002, 3.1.8	
26	Multimedia Call 33600 bit/s	22.002, 3.1.8	
27	Multimedia Call 56000 bit/s	22.002, 3.1.8	
28	Multimedia Call 64000 bit/s	22.002, 3.1.8	

Note: The rates in the table refer to FNUR (Fixed Network User Rate).

**Table A.6: QoS classes or traffic classes**

Item	QoS classes or traffic classes	Ref.	Comments
1	Conversational	23.107, 6.3.1, 6.5.1	
2	Streaming	23.107, 6.3.2, 6.5.1	
3	Interactive	23.107, 6.3.3, 6.5.1	
4	Background	23.107, 6.3.4, 6.5.1	

## A.4.2.1.3 Supplementary Services

Table A.7: Supplementary Services

Item	Supplementary services	Ref.	Comments
1	Call Deflection	22.072; 22.004, 4	
2	Calling Line Identification Presentation	22.081, 1; 22.004, 4	
3	Calling Line Identification Restriction	22.081, 2; 22.004, 4	
4	Connected Line Identification Presentation	22.081, 3; 22.004, 4	
5	Connected Line Identification Restriction	22.081, 4; 22.004, 4	
6	Call Forwarding Unconditional	22.082, 1; 22.004, 4	
7	Call Forwarding on Mobile Subscriber Busy	22.082, 2; 22.004, 4	
8	Call Forwarding on No Reply	22.082, 3; 22.004, 4	
9	Call Forwarding on Mobile Subscriber Not Reachable	22.082, 4; 22.004, 4	
10	Call Waiting	22.083, 1; 22.004, 4	
11	Call Hold	22.083, 2; 22.004, 4	
12	Multi Party Service	22.084; 22.004, 4	
13	Closed User Group	22.085; 22.004, 4	
14	User-to-user signalling	22.087; 22.004, 4	
15	Advice of Charge (Information)	22.086, 1; 22.004, 4	
16	Advice of Charge (Charging)	22.086, 2; 22.004, 4	
17	Barring of All Outgoing Calls	22.088, 1; 22.004, 4	
18	Barring of Outgoing International Calls	22.088, 1; 22.004, 4	
19	Barring of Outgoing International Calls except those directed to the Home PLMN Country	22.088, 1; 22.004, 4	
20	Barring of All Incoming Calls	22.088, 2; 22.004, 4	
21	Barring of Incoming Calls when Roaming Outside the Home PLMN Country	22.088, 2; 22.004, 4	
22	Explicit call transfer	22.091; 22.004, 4	
23	Call Completion to Busy Subscriber	22.093; 22.004, 4	
24	Call Completion to Busy Subscriber Request	22.093; 22.004, 4	
25	Follow Me	22.094	
26	Calling name presentation (CNAP)	22.096; 22.004, 4	
27	Multiple Subscriber Profile (MSP)	22.097; 22.004, A	
28	Multicall	22.135; 22.004, 4	
29	enhanced Multi-Level Precedence and Pre-emption	22.067; 22.004, 4	

Note: Test cases for these features will not be include in R99 of TS 34.123-1.

#### A.4.2.1.4 Service Capabilities

**Table A.8: Service Capabilities**

Item	Services Capabilities	Ref.	Comments
1	Mobile station Execution Environment (MExE)	22.057	
2	Location Service (LCS)	22.071	
3	USIM Application Toolkit (USAT)	31.111	

Note: Test cases for these features will not be include in R99 of TS 34.123-1.

#### A.4.2.1.5 GSM System Features

**Table A.9: GSM System Features**

Item	GSM System Features	Ref.	Comments
1	Network Identity and Time Zone (NITZ)	22.042	
2	Unstructured Supplementary Service Data (USSD)	22.090	

Note: Test cases for these features will not be include in R99 of TS 34.123-1.

#### A.4.2.2 Other UE Service Capabilities

**Table A.10: Other UE Service Capabilities**

Item	Other UE Service Capabilities	Ref.	Comments
1	Multimedia services ( 3G-324M)	26.071, 26.110, 26.111, 26.112	
2	Alternate speech/facsimile group 3	22.003, A.1.4	
3	Automatic facsimile group 3	22.003, A.1.5	

#### A.4.3 Baseline Implementation Capabilities

**Table A.11: Supported protocols**

Item	Supported protocols	Ref.	Comments
1	Call Control	24.008, 5	
2	Mobility Management	24.008, 4	
3	Session Management	24.008, 6.1	
4	GPRS Mobility Management	24.008, 4	
5	Radio Resource Control	25.331	
6	Packet Data Convergence Protocol	25.323	
7	Broadcast/Multicast Control	25.324	
8	Radio Link Control	25.322	
9	Medium Access Control	25.321	
10	Physical Layer	25.201	

### A.4.3.1 Baseline Implementation Capabilities to facilitate Conformance testing

**Table A.12: Reference Measurement Channels**

Item	Reference Measurement Channels	Ref.	Comments
1	Up-link reference measurement channel 12.2 kbps (FDD)	25.101 A.2.1	
2	Down-link reference measurement channel 12.2 kbps (FDD)	25.101 A.3.1	
3	Up-link reference measurement channel 12.2 kbps (TDD)	25.102 A.2.1	
4	Down-link reference measurement channel 12.2 kbps (TDD)	25.102 A.2.2	

**Table A.13: Special Conformance Testing Functions**

Item	Special Conformance Testing Functions	Ref.	Comments
1	UE test loop	34.109, 4.2	
2	Closed loop power control [FFS]	34.109, 4.3	

**Table A.14: Terminal Logical Test Interface**

Item	Terminal Logical Test Interface	Ref.	Comments
1	Electrical Man Machine Interface (EMMI)	34.109, 8	
2	UICC/ME test interface	34.109, 9	

### A.4.3.2 RF Baseline Implementation Capabilities

**Table A.15: FDD (DS) RF Baseline Implementation Capabilities**

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.101, 5.1	
2	Frequency band: 1920-1980, 2110-2170 MHz	25.101, 5.2	
3	Frequency band: 1850-1910, 1930-1990 MHz	25.101, 5.2	
4	Frequency band: Other spectrum	25.101, 5.2	
5	TX-RX Freq. Sep: 190 MHz	25.101, 5.3	
6	TX-RX Freq. Sep: 80 MHz	25.101, 5.3	
7	TX-RX Freq. Sep: Variable	25.101, 5.3	
8	Carrier raster: 200 kHz	25.101, 5.4	
9	UE Power Class 1 (+33 dBm)	25.101, 6.2.1	
10	UE Power Class 2 (+27 dBm)	25.101, 6.2.1	
11	UE Power Class 3 (+24 dBm)	25.101, 6.2.1	
12	UE Power Class 4 (+21 dBm)	25.101, 6.2.1	
13	Output RF spectrum emissions	25.101, 6.6	

**Table A.16: TDD RF Baseline Implementation Capabilities**

Item	TDD RF Baseline Implementation Capabilities	Ref.	Comments
1	Chip rate 3.84 Mcps	25.102, 5.1	
2	Frequency band: 1900-1920 MHz	25.102, 5.2	
3	Frequency band: 2010-2025 MHz	25.102, 5.2	
4	Frequency band: 1850-1910 MHz	25.102, 5.2	
5	Frequency band: 1930-1990 MHz	25.102, 5.2	
6	Frequency band: 1910-1930 MHz	25.102, 5.2	
7	Frequency band: Other spectrum	25.102, 5.2	
8	Carrier raster: 200 kHz	25.102, 5.4	
9	UE Power Class 2 (+24 dBm)	25.102, 6.2.1	
10	UE Power Class 3 (+21 dBm)	25.102, 6.2.1	
11	Output RF spectrum emissions	25.102, 6.6	

### A.4.3.3 Physical Layer Baseline Implementation Capabilities

**Table A.17: UE Radio Access Reference Combinations DL**

Item	UE Radio Access Reference Combination DL	Ref.	Comments
1	DL 32 kbit class	TR 25.926, 5	
2	DL 64 kbit class	TR 25.926, 5	
3	DL 128 kbit class	TR 25.926, 5	
4	DL 384 kbit class	TR 25.926, 5	
5	DL 768 kbit class	TR 25.926, 5	
6	DL 2048 kbit class	TR 25.926, 5	

**Table A.18: UE Radio Access Reference Combinations UL**

Item	UE Radio Access Reference Combination UL	Ref.	Comments
1	UL 32 kbit class	TR 25.926, 5	
2	UL 64 kbit class	TR 25.926, 5	
3	UL 128 kbit class	TR 25.926, 5	
4	UL 384 kbit class	TR 25.926, 5	
5	UL 768 kbit class	TR 25.926, 5	

### A.4.3.4 Layer 2/3 Baseline Implementation Capabilities (access stratum)

**Table A.19: PDCP Parameters**

Item	PDCP Parameters	Ref.	Comments
1	IP header compression algorithm	25.323, 5.1.2	
2	Lossless SRNS relocation	25.323, 5.4	
3	Multiplexing of multiple radio bearers [not R99]		
4	RLC in-sequence delivery	25.323, 5.4	
5	Establishment of more than one PDCP entities	25.323, 5.1	

**Table A.19b: BMC Parameters**

Item	BMC Parameters	Ref.	Comments
1	CBS message support	25.324, 9.1	

## A.4.4 Additional information

**Table A.20: Additional information**

Item	Additional information	Ref.	Comments
1	At least one bearer service	22.002, 3	
2	At least one supplementary service	22.004, 4	
3	Inter-system measurement for GSM	25.331, 8.4	
4	At least one MO circuit switched basic service	24.008, 5.3.4.2.1	
5	At least one MT circuit switched basic service	24.008, 5.3.4.2.2	
6	Immediate connect supported for all circuit switched basic services.	24.008, 5.2.1.6	
7	Activation of one or more PDP contexts simultaneously	[TBD]	
8	Sending of correct acknowledgement of memory full condition	[TBD]	
9	Status report capability	[TBD]	
10	Display of short messages	[TBD]	
11	Storing of received Class 1 short messages	[TBD]	
12	Storing of received Class 2 short messages in the SIM	[TBD]	
13	Replacing of short messages	[TBD]	
14	Reply procedures	23.040, Annex 4	
15	Sending of multiple short messages on the same RR connection when there is no call in progress	[TBD]	
16	Sending of concatenated multiple short messages when there is a call in progress	[TBD]	
17	Only circuit switched basic service supported by the mobile is emergency call	22.003, 6, A.1.2	
18	Multi-code transmission	[TBD]	
19	Poll_PU based polling mode of AM RLC	[TBD]	
20	Timer based polling mode of AM RLC	[TBD]	
21	Discard mode of AM RLC	[TBD]	
22	At least one MO circuit switched basic service	[TBD]	
23	At least one MO circuit switched basic service for which immediate connect is not used	[TBD]	
24	Network initiated MO call (CCBS)	24.008, 5.2.3 24.093, 4.1	
25	DTMF protocol control procedure	24.008, 5.5.7	
26	Secondary PDP context activation procedure	24.008, 6.1.3.2	
27	Support of UMTS encryption algorithm UEA1	33.102, 6.6	
28	Support of UMTS integrity algorithm UIA1	33.102, 6.5	



# Annex B (informative): Mapping of UE Radio Access Capability combinations to supported RABs

Based on:		Mapping of UE Radio Access Capability combinations to supported RABs											
ISG Typical parameter set v1.3		UTRA-FDD											
TR25.926 v3.1.0 UE Radio Access Capabilities													
ISG reference	UE class	CS/PS	DL						UL				
	Data rate (kbps)		1 32	2 64	3 128	4 384	5 768	6 2048	1 32	2 64	3 128	4 384	5 768
Chans - DL/UL (kbps)													
DPCH 5.4.1.X	1 DCCH 1.7		X	X	X	X	X	X	X	X	X	X	X
	2 DCCH 3.4		X	X	X	X	X	X	X	X	X	X	X
	3 DCCH 13.6		X	X	X	X	X	X	X	X	X	X	X
	4 CV voice 12.2	CS	X	X	X	X	X	X	X	X	X	X	X
	5 CV voice 10.2	CS	X	X	X	X	X	X	X	X	X	X	X
	6 CV voice 7.95	CS	X	X	X	X	X	X	X	X	X	X	X
	7 CV voice 7.4	CS	X	X	X	X	X	X	X	X	X	X	X
	8 CV voice 6.7	CS	X	X	X	X	X	X	X	X	X	X	X
	9 CV voice 5.9	CS	X	X	X	X	X	X	X	X	X	X	X
	10 CV voice 5.15	CS	X	X	X	X	X	X	X	X	X	X	X
	11 CV voice 4.75	CS	X	X	X	X	X	X	X	X	X	X	X
	12 CV 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
	13 CV 64/64	CS		X	X	X	X	X		X	X	X	X
	14 CV 32/32	CS		X	X	X	X	X		X	X	X	X
	15 ST 14.4/14.4	CS		X	X	X	X	X		X	X	X	X
	16 ST 28.8/28.8	CS		X	X	X	X	X		X	X	X	X
	17 ST 57.6/57.6	CS		X	X	X	X	X		X	X	X	X
	18 ST 64/0	CS/PS		X	X	X	X	X	X	X	X	X	X
	19 ST 0/64	CS/PS	X	X	X	X	X	X	X	X	X	X	X
	20 ST 128/0	CS/PS		X	X	X	X	X	X	X	X	X	X
	21 ST 0/128	CS/PS	X	X	X	X	X	X	X	X	X	X	X
	22 ST 384/0	CS/PS		X	X	X	X	X	X	X	X	X	X
23 IB 8/32 (CC,10msTTI)	PS		X	X	X	X	X	X	X	X	X	X	
24 IB 8/64	PS		X	X	X	X	X	X	X	X	X	X	
25 IB 64/32 (CC,10msTTI)	PS		X	X	X	X	X	X	X	X	X	X	
26 IB 64/64	PS		X	X	X	X	X	X	X	X	X	X	
27 IB 128/64	PS		X	X	X	X	X	X	X	X	X	X	
28 IB 128/128	PS		X	X	X	X	X	X	X	X	X	X	
29 IB 144/64	PS		X	X	X	X	X	X	X	X	X	X	
30 IB 144/144	PS		X	X	X	X	X	X	X	X	X	X	
31 IB 256 (10 ms TTI)/64	PS		X	X	X	X	X	X	X	X	X	X	
32 IB 384 (10ms TTI)/64	PS		X	X	X	X	X	X	X	X	X	X	
33 IB 384 (10ms TTI)/128	PS		X	X	X	X	X	X	X	X	X	X	
34 IB 384/384 (10ms TTI)	PS		X	X	X	X	X	X	X	X	X	X	
32 IB 384 (20ms TTI)/64	PS		X	X	X	X	X	X	X	X	X	X	
33 IB 384 (20ms TTI)/128	PS		X	X	X	X	X	X	X	X	X	X	
34 IB 384/384 (20ms TTI)	PS		X	X	X	X	X	X	X	X	X	X	
35 IB 2048/64	PS		X	X	X	X	X	X	X	X	X	X	
36 IB 2048/128	PS		X	X	X	X	X	X	X	X	X	X	
37 IB 2048/384 (10ms TTI)	PS		X	X	X	X	X	X	X	X	X	X	
37 IB 2048/384 (20ms TTI)	PS		X	X	X	X	X	X	X	X	X	X	
38 CVV + IB 8/32	CS+PS		X	X	X	X	X	X	X	X	X	X	
39 CVV + IB 64/32	CS+PS		X	X	X	X	X	X	X	X	X	X	
40 CVV + IB 64/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
41 CVV + IB 128/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
42 CVV + IB 256(10ms TTI)/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
43 CVV + IB 384(10ms TTI)/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
43 CVV + IB 384(20ms TTI)/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
44 CVV + IB 2048/128	CS+PS		X	X	X	X	X	X	X	X	X	X	
45 CVV + ST 57.6/57.6	CS+CS		X	X	X	X	X	X	X	X	X	X	
46 CVV + ST 64/0	CS+CS/PS		X	X	X	X	X	X	X	X	X	X	
47 CVV + ST 128/0	CS+CS		X	X	X	X	X	X	X	X	X	X	
48 CVV + ST 384/0	CS+CS		X	X	X	X	X	X	X	X	X	X	
49 CVV + CV 64/64	CS+CS		X	X	X	X	X	X	X	X	X	X	
50 CV 64/64 + CV 64/64	CS+CS		X	X	X	X	X	X	X	X	X	X	
51 CV 64/64 + IB 64/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
52 CV 64/64 + IB 128/64	CS+PS		X	X	X	X	X	X	X	X	X	X	
53 CV 64/64 + IB 128/128	CS+PS		X	X	X	X	X	X	X	X	X	X	
54 IB 128/64 + ST 64/0	PS+CS/PS		X	X	X	X	X	X	X	X	X	X	
55 IB 128/64 + ST 128/0	PS+CS/PS		X	X	X	X	X	X	X	X	X	X	
DSCH & DPCH 5.4.2.X	1 IB 256/64	PS				O	X	X	X	X	X	X	X
	2 IB 384/64	PS				O	X	X	X	X	X	X	X
	3 IB 2048/64	PS					X	X	X	X	X	X	X
	4 CVV + IB 256/64	CS+PS				O	X	X	X	X	X	X	X
	5 CVV + IB 384/64	CS+PS				O	X	X	X	X	X	X	X
SCCPCH 5.4.3.X	6 CVV + IB 2048/64	CS+PS						X	X	X	X	X	X
	1 PCCH		X	X	X	X	X	X	NA	NA	NA	NA	NA
	2 IB 32 +	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
PRACH 5.4.4.X	3 IB 32 + PCCH	PS	X	X	X	X	X	X	NA	NA	NA	NA	NA
	1 UL												
	1 IB 32	PS	NA	NA	NA	NA	NA	NA	X	X	X	X	X

CV = Conversational  
 IB = Interactive/Background  
 ST = Streaming  
 CVV = CV voice 12.2k

CS + CS = Support of Multicall (CS)  
 CS + PS = Simultaneous CS and PS  
 CS/PS = CS or PS  
 CS + CS/PS = Support of Multicall (2xCS) or simultaneous CS and PS

X = Support  
 O = Optional  
 NA = Not Applicable

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## Annex C (informative): Change history

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version- Current	Version -New	Doc-2nd- Level
TP-09				Approval of the specification as v3.1.0 rather than 3.0.0 to be aligned with 34.123-1 version number.		2.0.0	3.1.0	

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## History

<b>Document history</b>		
V3.1.0	September 2000	Publication